CATALOG 1972-1973

Amherst College Bulletin

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SEPTEMBER 1972

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Amherst College

Bulletin

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DIRECTIONS FOR CORRESPONDENCE

The post office and telegraph address of the College is Amherst, Massachusetts, 01002. The telephone number for all departments is 542–2000 (Area Code 413).

General information about Amherst College is available upon request from the Office of the Secretary, Box 65, Amherst College, Amherst, Massachusetts 01002.

Specific inquiries on the following subjects should be addressed to the officers named below:

Admission of students and catalog requests	Edward B. Wall, *Dean of Admission*
Alumni matters	Frederic J. Gardner, *Secretary of the Alumni Council*
Business matters	Kurt M. Hertzfeld, *Treasurer*
Financial Aid	Dean Donald McM. Routh
Student affairs	Dean Robert A. Ward
Transcripts and records	Robert F. Grose, *Registrar*

The New England Association of Schools and Colleges accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary school meet the standards of membership.

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College Calendar

1972

September 5, Tuesday. Freshman orientation begins.

September 8, Friday. First semester classes begin, 8:00 a.m.

September 9, Saturday. Thursday classes held.

September 21, Thursday. Last day for first semester course changes.

October 20–21, Friday–Saturday. Parents weekend.

October 28, Saturday. Wesleyan football game at Middletown. A holiday.

November 17, Friday. Fall recess begins, 5:00 p.m.

November 18, Saturday. Williams football game at Amherst. A holiday.

November 27, Monday. Fall recess ends, 8:00 a.m.

December 13, Wednesday. Last day of first semester classes.

December 16–20, Saturday–Wednesday. First semester examination period.

December 21, Thursday. Winter recess begins.

1973

January 3, Wednesday. Winter recess ends; beginning of interterm.

January 26, Friday. Interterm ends.

January 29, Monday. Second semester classes begin, 8:00 a.m.

February 14, Wednesday. Last day for second semester course changes.

March 23, Friday. Spring recess begins, 5:00 p.m.

April 2, Monday. Spring recess ends, 8:00 a.m.

May 11, Friday. Last day of second semester classes.

May 15–19, Tuesday–Saturday. Second semester examination period.

June 1, Friday. Commencement.

I

THE CORPORATION

FACULTY

FELLOWS

ADMINISTRATION

The Robert Frost Library

The Corporation

CHAIRMAN OF THE CORPORATION

Oliver Boutwell Merrill, LL.B., *New York, New York*

HONORARY CHAIRMAN OF THE CORPORATION AND TRUSTEE EMERITUS

John Jay McCloy, LL.B., *New York, New York*

PRESIDENT OF THE COLLEGE

John William Ward, PH.D., *Amherst, Massachusetts*

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George Bickley Beitzel, M.B.A., *Armonk, New York*
Howard Oliver Colgan, Jr., LL.B., *New York, New York*
Kendall Bush DeBevoise, LL.B., *New York, New York*
William Henry Hastie, S.J.D., *Philadelphia, Pennsylvania*
Harry William Knight, M.B.A., *New York, New York*
William Clarence Liedtke, Jr., LL.B., *Houston, Texas*
Francis Taylor Pearsons Plimpton, LL.B., *New York, New York*
George Latimer Shinn, B.A., *New York, New York*
William Willard Wirtz, LL.B., *Washington, D.C.*
David Bicknell Truman,* PH.D., *South Hadley, Massachusetts*
David Lewis Kirp,* LL.B., *Berkeley, California*
George Edward Peterson,* B.A., *Washington, D.C.*
John Cushing Esty, Jr.,* M.A., *Concord, Massachusetts*
Robert Jackson McKean, Jr.,* LL.B., *New York, New York*
Paul Errol Bragdon,* LL.B., *Portland, Oregon*

SECRETARY OF THE CORPORATION

James Alfred Guest, LL.B., *Amherst, Massachusetts*

TRUSTEES EMERITI

Julius Seelye Bixler, PH.D., *Jaffrey, New Hampshire*
Lewis Williams Douglas, B.A., *Tucson, Arizona*
Walter Gellhorn, LL.B., *New York, New York*
John Anthony Hill, LL.B., *Scottsdale, Arizona*
Arthur Lee Kinsolving, B.D., *Captiva, Florida*
Eustace Seligman, LL.B., *New York, New York*

*The terms of the Alumni Trustees expire as follows: David Bicknell Truman, 1973; David Lewis Kirp, 1974; George Edward Peterson, 1975; John C. Esty, Jr., 1976; Robert Jackson McKean, Jr., 1977; Paul Errol Bragdon, 1978.

COMMITTEES OF THE CORPORATION

The Chairman of the Corporation and the President of the College are members, *ex officiis*, of all committees.

Executive Committee. Messrs. Merrill (Chairman), Beitzel, DeBevoise, Esty, Hastie, Knight, McKean, F. Plimpton, Shinn, Truman.

Budget and Finance Committee. Messrs. Beitzel (Chairman), DeBevoise, Liedtke, McKean, Seligman, Shinn, Wirtz.

Investment Committee. Messrs. Shinn (Chairman), Colgan, Knight, Liedtke, Peterson, Plimpton.

Instruction Committee. Messrs. Truman (Chairman), Beitzel, Bragdon, DeBevoise, Esty, Hastie, Kirp, Liedtke, McKean, Peterson, Plimpton, Seligman.

Buildings and Grounds Committee. Messrs. DeBevoise (Chairman), Beitzel, Hastie, Kirp, Seligman, Shinn.

Honorary Degrees Committee. Messrs. Hastie (Chairman), Esty, Plimpton, Truman, Wirtz.

Folger Shakespeare Library Committee. Messrs. Wirtz (Chairman), Colgan, Hastie, Knight, Plimpton, Shinn.

Committee on Student Life. Messrs. Esty (Chairman), Beitzel, Bragdon, Colgan, DeBevoise, Hastie, Kirp, Knight, Peterson.

Compensation Committee. Messrs. Knight (Chairman), Bragdon, Colgan, Liedtke, McKean, Seligman, Truman.

Committee on Development. Messrs. McKean (Chairman), Beitzel, Colgan, Knight, Plimpton, Shinn.

The corporate name of the College is
THE TRUSTEES OF AMHERST COLLEGE

Faculty

John William Ward, *President of the College.* A.B. (1947) Harvard College; M.A. (1950), Ph.D. (1953) University of Minnesota; M.A. (hon. 1965) Amherst College.

EMERITI

Charles Woolsey Cole, *President, Emeritus.* B.A. (1927) Amherst College; A.M. (1928), Ph.D. (1931) Columbia University; L.H.D. (1942) Amherst College, (1951) University of Massachusetts, (1953) Trinity College; LL.D. (1946) Wagner College, (1946) Wesleyan University, (1946) Williams College, (1952) American International College, (1953) Doshisha University, (1954) Columbia University, (1960) Amherst College; Litt.D. (1948) Hamilton College; Sc.D. (1948) Clarkson College; LL.D. (1964) Emerson College.

Calvin Hastings Plimpton, *President, Emeritus.* B.A. (1939) Amherst College; M.D. (1943), M.A. (1947) Harvard University; Med. Sc.D. (1951) Columbia University; LL.D. (1960) Williams College; LL.D. (1961) Wesleyan University; Sc.D. (1962) Rockford College; LL.D. (1962) Doshisha University; L.H.D. (1962) University of Massachusetts; Sc.D. (1963) Saint Mary's College; LL.D. (1963) St. Lawrence University; Litt.D. (1965) American International College; Sc.D. (1966) Trinity College; Sc.D. (1967) Grinnell College; Litt.D. (1969) Michigan State University; LL.D. (1971) Amherst College.

George William Bain, *Samuel A. Hitchcock Professor of Mineralogy and Geology, Emeritus.* B.Sc. (1921), M.Sc. (1923) McGill University; M.A. (1923), Ph.D. (1927) Columbia University; M.A. (hon. 1941) Amherst College.

Theodore Baird, *Samuel Williston Professor of English, Emeritus.* B.A. (1921) Hobart College; M.A. (1922), Ph.D. (1929) Harvard University; M.A. (hon. 1939) Amherst College.

Ralph Alonzo Beebe, *Massachusetts Professor of Chemistry, Emeritus.* B.A. (1920) Amherst College; Ph.D. (1923) Princeton University.

Paul Witherspoon Eckley, *Professor of Physical Education, Emeritus.* B.A. (1917) Cornell University; M.A. (hon. 1949) Amherst College.

Reginald Foster French, *Professor of Romance Languages, Emeritus.* B.A. (1927) Dartmouth College; M.A. (1928), Ph.D. (1934) Harvard University; M.A. (hon. 1947) Amherst College.

Alfred Freeman Havighurst, *Professor of History, Emeritus.* B.A. (1925) Ohio Wesleyan University; M.A. (1928) University of Chicago; Ph.D. (1936) Harvard University; M.A. (hon. 1955) Amherst College.

Michael Joseph Kennedy, *Associate Professor of Physical Education, Emeritus.*

George Wallace Kidder, *Stone Professor of Biology, Emeritus.* B.A. (1926) University of Oregon; M.A. (1929) University of California; Ph.D. (1932) Columbia University; M.A. (hon. 1949) Amherst College; Sc.D. (hon. 1950) Wesleyan University.

Sterling Power Lamprecht, *Emily C. Jordan Folger Professor of Philosophy, Emeritus.* B.A. (1911) Williams College; M.A. (1912) Harvard University; B.D. (1915) Union Theological Seminary; Ph.D. (1918) Columbia University; M.A. (hon. 1934) Amherst College; Litt.D. (1957) Williams College.

Karl Loewenstein, *William Nelson Cromwell Professor of Jurisprudence and Political Science, Emeritus.* B.L. (1914), D.C.L. (1919) University of Munich; M.A. (hon. 1940) Amherst College.

Albert Ernest Lumley, *Professor of Physical Education, Emeritus.* B.A. (1925) Eastern Michigan College; M.A. (1938) Oberlin College; M.A. (hon. 1947) Amherst College.

Ralph Cleland McGoun, Jr., *Professor of Dramatic Arts, Emeritus.* B.A. (1927), M.A. (1929) Amherst College.

Newton Felch McKeon, *Professor of English & Director of Robert Frost Library, Emeritus.* B.A. (1926) Amherst College.

Allison Wilson Marsh, *Professor of Hygiene and Physical Education, Emeritus.* B.A. (1913) Amherst College; M.Ed. (1925) Harvard University; L.H.D. (1963) Amherst College.

Charles Hill Morgan, *Professor of Fine Arts on the William R. Mead Foundation, Emeritus.* B.A. (1924), M.A. (1926), Ph.D. (1928) Harvard University; M.A. (hon. 1938) Amherst College; LL.D. (1960) University of Vermont.

Harold Henry Plough, *Edward S. Harkness Professor of Biology, Emeritus.* B.A. (1913) Amherst College; M.A. (1915), Ph.D. (1917) Columbia University; Sc.D. (1963) Amherst College.

Charles Ensign Rogers, *Professor of Fine Arts and Dramatic Arts, Emeritus.* B.A. (1927) Albion College; M.A. (1931) Columbia University; M.A. (hon. 1961) Amherst College.

Steven Martin Rostas, *Professor of Physical Education, Emeritus. B.A.* (1921) Br. Eötuös, Budapest; M.Ed. (1942) University of Massachusetts; M.A. (hon. 1961) Amherst College.

Edward Dwight Salmon, *Winkley Professor of History, Emeritus.* B.S. (1917) University of Rochester; M.A. (1923), Ph.D. (1934) Harvard University; M.A. (hon. 1938) Amherst College.

Anthony Scenna, *Professor of German, Emeritus.* B.A. (1927) Amherst College; M.A. (1929), Ph.D. (1937) Columbia University.

Oscar Emile Schotté, *Rufus Tyler Lincoln Professor of Biology, Emeritus.* B.S. (1920), Sc.D. (1925) University of Geneva; M.A. (hon. 1944) Amherst College.

Theodore Soller, *Professor of Physics, Emeritus.* B.A. (1922) Oberlin College; M.A. (1924), Ph.D. (1931) University of Wisconsin, M.A. (hon. 1946) Amherst College.

Atherton Hall Sprague, *Professor of Mathematics, Emeritus.* B.A. (1920) Amherst College; M.A. (1923), Ph.D. (1941) Princeton University.

George Rogers Taylor, *George D. Olds Professor of Economics, Emeritus.* Ph.B. (1921), Ph.D. (1929) University of Chicago; M.A. (hon. 1939) Amherst College.

Willard Long Thorp, *Professor of Economics, Emeritus.* B.A. (1920) Amherst College; M.A. (1921) University of Michigan; Ph.D. (1924) Columbia University; LL.D. (1935) Marietta College, (1949) Amherst College, (1950) Albright College, (1960) University of Massachusetts, (1960) University of Michigan.

Frederick King Turgeon, *Professor of French, Emeritus.* B.A. (1923) Bowdoin College; M.A. (1924), Ph.D. (1930) Harvard University; M.A. (hon. 1940) Amherst College.

Colston Estey Warne, *Professor of Economics, Emeritus.* B.A. (1920), M.A. (1921) Cornell University; Ph.D. (1925) University of Chicago; M.A. (hon. 1942) Amherst College.

Robert Byron Whitney, *George H. Corey Professor of Chemistry, Emeritus.* B.A. (1924), Ph.D. (1927) University of Minnesota; M.A. (hon. 1944) Amherst College.

Albert Elmer Wood, *Professor of Biology, Emeritus.* B.S. (1930) Princeton University; M.A. (1932), Ph.D. (1935) Columbia University; M.A. (hon. 1954) Amherst College.

LECTURER

Henry Steele Commager, *Simpson Lecturer in History.* Ph.B. (1923), M.A. (1924), Ph.D. (1928) University of Chicago; M.A. (hon. 1947) Cambridge University, (hon. 1952) Oxford University, (hon. 1957) Amherst College; Litt.D. (1958) Washington College, (1958) Ohio Wesleyan University, (1959) Monmouth College; Ed.D. (1960) Rhode Island College of Education; LL.D. (1960) Brandeis University, (1960) Michigan State University, (1962) Franklin and Marshall College; D.Litt. (1962) Cambridge University; L.H.D. (1962) University of Hartford, (1963) University of Puget Sound; Honorary Fellow, Peterhouse; D.C.L. (1964) Alfred University; LL.D. (1964) University of Pittsburgh; Litt.D. (1965) Marymount College; D.H.L. (1966) Carlton College; LL.D. (1967) Marietta College; D.H.L. (1972) University of Massachusetts.

PROFESSORS

Hugh George Jeffrey Aitken, *Professor of Economics.* B.A. (1943), M.A. (1947) St. Andrews University; M.A. (1948) University of Toronto; Ph.D. (1951) Harvard University; M.A. (hon. 1966) Amherst College.

Ralph E. Beals, *Professor of Economics.* B.S. (1958) University of Kentucky; M.A. (1959) Northwestern University; Ph.D. (1970) Massachusetts Institute of Technology.

Bruce Buzzell Benson, *Professor of Physics.* B.A. (1943) Amherst College; M.S. (1945), Ph.D. (1947) Yale University.

Norman Birnbaum, *Professor of Sociology.* B.A. (1947) Williams College; M.A. (1951) Harvard University; M.A. (1960) Oxford University; Ph.D. (1958) Harvard University; M.A. (hon. 1969) Amherst College.

Walter Leroy Boughton, *Stanley King Professor of Dramatic Arts and Director of Kirby Memorial Theater.* B.A. (1941), M.A. (1949) Brown University; M.F.A. (1951) Yale University; M.A. (hon. 1964) Amherst College.

Robert Hermann Breusch, *Walker Professor of Mathematics.* Ph.D. (1932) University of Feiburg; M.A. (hon. 1954) Amherst College.

Gerald Patrick Brophy, *Professor of Geology.* B.A. (1951), M.A. (1953), Ph.D. (1954) Columbia University; M.A. (hon. 1968) Amherst College.

Lincoln Pierson Brower, *Professor of Biology.* B.A. (1953) Princeton University; Ph.D. (1957) Yale University; M.A. (hon. 1968) Amherst College.

Stephen Brown, *College Physician & Parmly Billings Professor of Hygiene.* B.A. (1928) Amherst College; M.D. (1932) Yale University.

John Arthur Cameron‡, *Professor of English.* B.A. (1952), M.A. (1957), Ph.D. (1963) Yale University; Diploma (1955) University of Edinburgh; M.A. (hon. 1970) Amherst College.

Jeffrey James Carre, *Professor of Romance Languages.* B.A. (1940) Bowdoin College; Ph.D. (1950) Columbia; M.A. (hon. 1964) Amherst College.

Richard John Cody, *Professor of English and College Librarian.* B.A. (1952) University of London (University College, Southampton); M.A. (1958), Ph.D. (1961) University of Minnesota; M.A. (hon. 1968) Amherst College.

Arnold Collery, *Professor of Economics.* B.A. (1950) University of Buffalo; Ph.D. (1958) Princeton University; M.A. (hon. 1964) Amherst College.

Haskell Robert Coplin, *Professor of Psychology.* B.A. (1947), M.A. (1948), Ph.D. (1951) University of Michigan; M.A. (hon. 1957) Amherst College.

George Armour Craig, *Professor of English.* B.A. (1937) Amherst College; M.A. (1938), Ph.D. (1947) Harvard University.

Asa Davis, *Professor of History and Black Studies.* B.A. (1948) Wilberforce University; S.T.B. (1951), S.T.M. (1952), Ph.D. (1960) Harvard University.

‡On leave second semester 1972–73.

Benjamin Haile DeMott*, *Professor of English.* B.A. (1949) George Washington University; M.A. (1950), Ph.D. (1953) Harvard University; M.A. (hon. 1960) Amherst College.

Colby Wilson Dempesy, *Professor of Physics.* B.A. (1952) Oberlin College; M.A. (1955), Ph.D. (1957) Rice Institute; M.A. (hon. 1968) Amherst College.

Henry Frederick Dunbar, Jr., *Professor of Physical Education.* B.A. (1944) Amherst College; M.A. (1949) Teachers College, Columbia University; Ph.D. (1950) Columbia University.

Joseph Epstein†, *Professor of Philosophy.* B.S.S. (1939) City College of New York; Ph.D. (1951) Columbia University; M.A. (hon. 1961) Amherst College.

Richard David Fink*, *Professor of Chemistry.* A.B. (1958) Harvard University; Ph.D. (1962) Massachusetts Institute of Technology.

Richard Martin Foose*, *Professor of Geology.* B.S. (1937) Franklin and Marshall College; M.S. (1939) Northwestern University; Ph.D. (1942) Johns Hopkins University; M.A. (hon. 1964) Amherst College.

Prosser Gifford, *Professor of History and Dean of the Faculty.* B.A. (1951) Yale University; B.A. (1953) Merton College, Oxford University; LL.B. (1956) Harvard Law School; Ph.D. (1964) Yale University; M.A. (hon. 1969) Amherst College.

Elmo Giordanetti*, *Professor of Romance Languages.* B.A. (1951) Bowdoin College; M.A. (1954), Ph.D. (1959) Princeton University; M.A. (hon. 1968) Amherst College.

Joel Ethan Gordon*, *Professor of Physics.* B.A. (1952) Harvard University; Ph.D. (1958) University of California; M.A. (hon. 1969) Amherst College.

Theodore Phinney Greene, *Professor of History.* B.A. (1943) Amherst College; M.A. (1948), Ph.D. (1970) Columbia University.

Allen Guttmann, *Professor of English & American Studies.* B.A. (1953) University of Florida; M.A. (1956) Columbia University; Ph.D. (1961) University of Minnesota.

*On leave 1972–73.
†On leave first semester 1972–73.

John Burt Halsted, *Professor of History.* B.A. (1949), M.A. (1949) Wesleyan University; Ph.D. (1954) Columbia University; M.A. (hon. 1966) Amherst College.

Edward Robert Harrison, *Professor, Five-College Department of Astronomy.* Fellow, Institute of Physics (England); Fellow, Royal Astronomical Society.

Hugh Dodge Hawkins, *Professor of History and American Studies.* B.A. (1950) DePauw University; Ph.D. (1954) Johns Hopkins University; M.A. (hon. 1969) Amherst College.

William Webster Heath, *Professor of English.* B.A. (1951) Amherst College; M.A. (1952) Columbia University; Ph.D. (1956) University of Wisconsin.

William Michael Hexter, *Professor of Biology.* B.A. (1949) University of California (Berkeley); M.A. (1951), Ph.D. (1953) University of California; M.A. (hon. 1966) Amherst College.

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Ernest Alfred Johnson, *Professor of Romance Languages.* B.A. (1939) Amherst College; M.A. (1940) University of Chicago; M.A. (1941), Ph.D. (1950) Harvard University.

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William Elmer Kennick, *Professor of Philosophy.* B.A. (1945) Oberlin College; Ph.D. (1952) Cornell University; M.A. (hon. 1962) Amherst College.

Theodore Koester*, *Professor of Psychology.* B.A. (1936) Wesleyan University; B.D. (1942) Hartford Theological Seminary; Ph.D. (1945) Columbia University; M.A. (hon. 1950) Amherst College.

Heinz Kohler, *Professor of Economics.* B.A. (1956) Free University of Berlin; M.A. (1958), Ph.D. (1961) University of Michigan; M.A. (hon. 1969) Amherst College.

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*On leave 1972–73.

Earl Latham, *Joseph B. Eastman Professor of Political Science.* B.A. (1931), Ph.D. (1939) Harvard University; M.A. (hon. 1949) Amherst College.

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Leo Marx, *William R. Kenan, Jr. Professor of English and American Studies.* B.S. (1941), Ph.D. (1949) Harvard University; M.A. (hon. 1959) Amherst College.

Basil Stephen Matthews, *Visiting Distinguished Professor of Black Studies.* M.A. (1935) Benedictine Seminary, Trinidad; M.A. (1942), Ph.D. (1947) Fordham University.

James Grenfell Mauldon, *Professor of Mathematics.* M.A. (1947) Oxford University; M.A. (hon. 1970) Amherst College.

Benjamin Franklin McCabe, *Professor of Physical Education.* B.A. (1946) Iowa State Teacher's College; M.A. (hon. 1964) Amherst College.

Henry George Mishkin, *Professor of Music.* B.A. (1931) University of California; M.A. (1937), Ph.D. (1938) Harvard University; M.A. (hon. 1954) Amherst College.

Lewis Seymour Mudge, *Professor of Philosophy & Religion.* B.A. (1951), B.D. (1955), Ph.D. (1961) Princeton University; B.A. (1954), M.A. (1958) Oxford University; M.A. (hon. 1970) Amherst College.

James Rodney Nelson, *Charles E. Merrill Professor of Economics.* B.A. (1936) Oberlin College; B.A. (1938) Oxford University; Ph.D. (1948) Harvard University; M.A. (hon. 1951) Amherst College.

James Elmore Ostendarp, *Professor of Physical Education.* B.S. (1952) Bucknell University; M.A. (1956) Columbia University; M.A. (hon. 1966) Amherst College.

John Pemberton, III, *Professor of Religion.* B.A. (1948) Princeton University; B.D. (1952), Ph.D. (1958) Duke University; M.A. (hon. 1967) Amherst College.

Murray Bisbee Peppard, *Professor of German.* B.A. (1939) Amherst College; M.A. (1942), Ph.D. (1948) Yale University.

Donald Stevenson Pitkin, *Professor of Anthropology.* B.A. (1947), M.A. (1950), Ph.D. (1954) Harvard University; M.A. (hon. 1966) Amherst College.

William Harrison Pritchard, *Professor of English.* B.A. (1953) Amherst College; M.A. (1956), Ph.D. (1960) Harvard University.

Robert Horton Romer, *Professor of Physics.* B.A. (1952) Amherst College; Ph.D. (1955) Princeton University.

Edwin Charles Rozwenc, *Dwight W. Morrow Professor of American History.* B.A. (1937) Amherst College; M.A. (1938), Ph.D. (1941) Columbia University.

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Waltraut Carola Seitter, *Professor, Five-College Department of Astronomy.* M.A. (1955) Smith College; Ph.D. (1962) University of Bonn.

Marc Stamm Silver, *Professor of Chemistry.* B.A. (1955) Harvard University; Ph.D. (1959) California Institute of Technology; M.A. (hon. 1969) Amherst College.

John Donovan Strong, *Professor, Five-College Department of Astronomy.* B.A. (1926) University of Kansas; Ph.D. (1930) University of Michigan.

Dudley Herbert Towne, *Professor of Physics.* B.S. (1947) Yale University; M.A. (1949), Ph.D. (1953) Harvard University; M.A. (hon. 1964) Amherst College.

Frank Anderson Trapp, *Professor of Fine Arts.* B.A. (1943) Carnegie Institute of Technology; M.A. (1947) University of Pittsburgh; Ph.D. (1951) Harvard University; M.A. (hon. 1963) Amherst College.

John William Ward, *Professor of History and American Studies and President of the College.* A.B. (1947) Harvard College; M.A. (1950), Ph.D. (1953) University of Minnesota; M.A. (hon. 1965) Amherst College.

Donald Owen White, *Professor of German.* B.A. (1953), M.A. (1956), Ph.D. (1963) Yale University; M.A. (hon. 1970) Amherst College.

‡On leave second semester 1972–73.

Richard Eugene Wilson, *Professor of Physical Education.* B.A. (1934), Midland College; B.P.E. (1937), M.Ed. (1938) Springfield College; M.A. (hon. 1960) Amherst College.

Henry Thomas Yost, Jr., *Professor of Biology.* B.A. (1947), Ph.D. (1951) The Johns Hopkins University; M.A. (hon. 1965) Amherst College.

Benjamin Munn Ziegler, *Bertrand Snell Professor of Political Science.* B.A. (1928) New York University; LL.B. (1931), M.A. (1933), Ph.D. (1935) Harvard University; M.A. (hon. 1952) Amherst College.

ASSOCIATE PROFESSORS

Hadley Philip Arkes*, *Associate Professor of Political Science.* B.A. (1962) University of Illinois; Ph.D. (1967) University of Chicago.

Thomas Travis Arny, *Associate Professor, Five-College Department of Astronomy.* B.A. (1961) Haverford College; Ph.D. (1965) University of Arizona.

Duane W. Bailey, *Associate Professor of Mathematics.* B.A. (1957) Washington State University; M.A. (1959), Ph.D. (1961) University of Oregon.

Edward Scudder Belt*, *Associate Professor of Geology.* B.C. (1955) Williams College; M.A. (1957) Harvard University; Ph.D. (1963) Yale University.

Robert Bruce Carroll, *Visiting Associate Professor of Political Science,* first semester. B.A. (1952) University of Vermont; M.P.A. (1957) Wayne State University; Ph.D. (1963) University of Chicago.

Otis Cary, *Associate Professor on leave for service at Doshisha University and Director of Amherst House, Doshisha University.* B.A. (1946) Amherst College; M.A. (1951) Yale University.

Frederic Lawrence Cheyette, *Associate Professor of History.* A.B. (1953) Princeton University; M.A. (1954), Ph.D. (1959) Harvard University.

Howell Drescher Chickering, Jr., *Associate Professor of English.* B.A. (1959) Dartmouth College; Ph.D. (1965) Indiana University.

*On leave 1972–73.

Peter Czap, Jr., *Associate Professor of History.* B.A. (1953) Rutgers University; Ph.D. (1959) Cornell University.

James Quincy Denton, *Associate Professor of Mathematics.* B.S. (1951) California Institute of Technology; M.S. (1958), Ph.D. (1962) University of Oregon.

Jan Emil Dizard*, *Associate Professor of Sociology.* B.A. (1962), University of Minnesota (Duluth); M.A. (1964), Ph.D. (1967) The University of Chicago.

Alice Eagly, *Visiting Associate Professor of Psychology,* second semester. A.B. (1960) Radcliffe College, M.A. (1963), Ph.D. (1965) University of Michigan.

Anne Lathrop Fessenden, *Visiting Lecturer in English.* B.A. (1949) Barnard College; M.A. (1952), Ph.D. (1971) Columbia University.

Robert Freeman Grose, *Associate Professor of Psychology and Registrar.* B.A. (1944), M.S. (1947), Ph.D. (1953) Yale University; M.A. (hon. 1970) Amherst College.

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Bruce Gordon McInnes, *Associate Professor of Music.* A.B. (1959) Dartmouth College; M. Mus. (1964) Yale University.

J(ohn) Tracy Mehr‡, *Associate Professor of Physical Education.* B.A. (1950) Holy Cross College; M.B.A. (1967) Boston College.

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*On leave 1972–73.
‡On leave second semester 1972–73.

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Edward Joseph Serues, *Associate Professor of Physical Education.* B.S. (1956) Boston University; M.S. (1962) Springfield College.

David Robinson Sofield, *Associate Professor of English.* B.A. (1957) Princeton; M.A. (1965), Ph.D. (1971) Stanford University.

Norton Starr*, *Associate Professor of Mathematics.* B.A. (1958) Harvard College; Ph.D. (1964) Massachusetts Institute of Technology.

Robert Anthony Stone, *Visiting Lecturer in English.*

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Robert Campbell Townsend, *Associate Professor of English.* B.A. (1957) Princeton University; B.A. (1959) Cambridge University; Ph.D. (1962) Harvard University.

William Utermohlen, *Visiting Artist.*

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William Frederick Zimmerman, *Associate Professor of Biology.* B.A. (1960), Ph.D. (1966) Princeton University.

*On leave 1972–73.
†On leave first semester 1972–73.

ASSISTANT PROFESSORS

David Lee Armacost, *Assistant Professor of Mathematics.* B.A. (1965) Pomona College; M.S. (1966), Ph.D. (1969) Stanford University.

Lawrence Alan Babb, *Assistant Professor of Anthropology.* B.A. (1963) University of Michigan; M.A. (1965), Ph.D. (1969) University of Rochester.

James Henry Bierman*, *Assistant Professor of Dramatic Arts.* B.A. (1964) Princeton University; Diploma from University of Paris (Sorbonne) (1966); Ph.D. (1968) Stanford University.

David Alan Birnbaum, *Assistant Professor of Mathematics.* A.B. (1967) University of Rochester; M.S. (1968), Ph.D. (1972) University of Illinois.

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Emilia Viotta da Costa, *Visiting Lecturer in History,* second semester.

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*On leave 1972–73.

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George Samuel Greenstein, *Assistant Professor of Astronomy.* B.S. (1962) Stanford University; Ph.D. (1968) Yale University.

Charles Robert Hadlock, *Assistant Professor of Mathematics.* B.S. (1967) Providence College; M.A. (1968), Ph.D. (1970) University of Illinois.

Ronald Gail Heyduk, *Assistant Professor of Psychology.* B.Sci. (1968) Denison University; Ph.D. (1972) University of Michigan.

Matthew Joseph Holdreith*, *Assitant Professor of English.* A.B. (1963) University of Michigan; M.A. (1966) Indiana University.

Mufaro Josiah Hove, *Assistant Professor of Chemistry.* B.S. Wittenberg University; M.S. (1968), Ph.D. (1971) Northwestern University.

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*On leave 1972–73.

Perry Roy Karfunkel, *Assistant Professor of Biology.* B.A. (1966) City University of New York (Queens College); M.Ph. (1970), Ph.D. (1971) Yale University.

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Conrad Alan Kent*, *Assistant Professor of Spanish.* A.B. (1963) Mexico City College; M.A. (1964), Ph.D. (1969) Harvard University.

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Robert Lee, *Assistant Professor of Religion.* B.S. (1949) Oregon State University; B.D. (1959) Goshen Biblical Seminary.

Andrew Lees*, *Assistant Professor of History.* B.A. (1963) Amherst College; M.A. (1964), Ph.D. (1969) Harvard University.

Henry Miller Littlefield, *Assistant Professor of Physical Education and Assistant Dean.* B.A. (1954), M.A. (1959), Ph.D. (1967) Columbia University.

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*On leave 1972–73.
†On leave first semester 1972–73.

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Mark Oxman, *Assistant Professor of Fine Arts.* C.M.P.S. (1967) City and Guilds of London Art School.

Dale Earl Peterson, *Assistant Professor of English and Russian.* B.A. (1963) Harvard University; M.A. (1965), Ph.D. (1971) Yale University.

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Ellen Ryerson, *Assistant Professor of American Studies.* B.A. (1964) University of Wisconsin; M.A. (1966), Ph.D. (1970) Yale University.

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Jeffrey Franklin Sicha, *Assistant Professor of Philosophy.* B.A. (1962) Oberlin College; D. Phil. (1966) Oxford University.

Charles Alan Sorenson, *Assistant Professor of Psychology.* B.A. (1966) University of California; Ph.D. (1971) University of California, Los Angeles.

Lewis Spratlan, *Assistant Professor of Music.* B.A. (1962), M.Mus. (1965) Yale University.

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Joel Morgan Upton, *Assistant Professor of Fine Arts.* A.B. (1963) Rutgers University; M.A. (1968), Ph.D. (1972) Bryn Mawr College.

Peter Alexis Valberg, *Assistant Professor of Physics.* A.B. (1964) Taylor University; M.A. (1966), Ph.D. (1969) Harvard University.

David Van Blerkom, *Assistant Professor, Five-College Department of Astronomy.* B.S. (1963) City College of New York; Ph.D. (1969) University of Colorado.

Kenneth Lee Verosub, *Visiting Assistant Professor of Physics.* A.B. (1966) University of Michigan; M.S. (1971), M.S. (1971), Ph.D. (1972) Stanford University.

Alan Stuart Waggoner, *Assistant Professor of Chemistry.* B.A. (1965) University of Colorado; Ph.D. (1969) University of Oregon.

Eugene D. Warner, *Assistant Professor of Dramatic Arts.* A.B. (1967) University of Illinois; M.F.A. (1971) Yale University.

William Arthur Weary, *Assistant Professor of History.* B.A. (1964) Amherst College; M.A. (1966), Ph.D. (1972) Yale University.

Donald Franklin Wheelock, *Assistant Professor of Music.* A.B. (1962) Union College; M.Mus. (1966) Yale University.

David Wood Wills, *Assistant Professor of Religion.* A.B. (1962) Yale University; B.D. (1966) Princeton Theological Seminary.

INSTRUCTORS

William Arnold, *Visiting Lecturer in Fine Arts.*

Frederick Thomas Griffiths, *Instructor in Classics.* B.A. (1969) Yale College, M.A. (1972) Harvard University.

James Elliott Maraniss, *Instructor of Romance Languages.* B.A. (1966), M.A. (1967) Harvard University.

Nana Mbelle, *Visiting Lecturer in Black Studies.* B.A. (1970) Western College for Women, M.A.T. (1972) University of Massachusetts.

Myron Chester Rokoszak, *Instructor in Physical Education.* B.A. (1966) Amherst College.

Gordon Clark Schloming, *Instructor in Political Science.* B.A. (1966) Pomona College.

VISITORS

Yves Carlet, *A.C.L.S. Visiting Fellow*
Hajimu Sasaki, *A.C.L.S. Visiting Fellow*

ASSOCIATES

Timothy Mason, PH.D., *Chemistry*
Denise Watkins, Baccalauréat-ès-Lettres (Caen), *French*
Judith A. Davidson, *German*

RESEARCH ASSOCIATES

Lenette Rogers Atkinson, PH.D., *Biology*
Virginia Dewey, PH.D., *Biology*
Phillip Truman Ives, PH.D., *Biology*
Phyllis King, B.A., *Physics*
John Sedlak, PH.D., *Chemistry*
Dr. Osias Solomon, PH.D., *Chemistry*
Mai Stoddard, M.A., *Chemistry*

LANGUAGE ASSISTANTS

Dominique Donnet, *French*
Bernard Genton, *French*
Mlle. Francoise Leleu, *French*
Carlos Moreno Miranda, *Spanish*
Henry-Jean Servat, *French*
Karl-Heinz Wolff, *German*

FACULTY COMMITTEES

Committee of Six. President Ward (Chairman, *ex officio*) Dean Gifford. (Secretary, *ex officio*), Professors Beals, Denton, Hawkins, Latham, Ryerson and Towne.

Committee on Educational Policy. Professors Babb, Kennick, Ratte, Townend (Chairman), Yost, and three students to be elected in the fall.

College Council. Professor Taubman (Chairman), Deans Reed (Secretary), Gooding and Ward, Professors Hove, Sears and Sofield. Richard Clary '75, three students to be elected in the fall, and two students to be appointed in the fall; one representing the Secretariat of the Student Union and one representing the Board of House Presidents.

Committee on Priorities and Resources. President Ward, Dean Gifford, Professors Collery (Chairman), Bailey, and Pritchard; Mr. Hertzfeld (Treasurer). Julian Decyk '73, Stephen Lowe '74, and one student to be elected in the fall.

Judicial Board. Professors Petropulos (Chairman), Carre, and Benson; Andrew Gordon '74, William Woolverton '73, and one student to be elected in the fall.

Committee on Admission and Scholarships. President Ward (*ex officio*), Deans Wall (Secretary), Behnke, and Routh; Professors Grose, Cheyette, Chickering, May, and Silver; Thomas Wattley '75, two students to be elected in the fall and one faculty member to be appointed in the fall.

Faculty Computer Committee. Professors Cheyette, Dempesy, Grose, Hadlock, Nicholson and Silver; Mr. Plourde, Mrs. Steele and Anthony K. Wingo, '73.

Fellowship Committee. Deans Gifford (Chairman) and Routh (Secretary), Professors Cameron, Latham, Pemberton and Hexter.

Committee on Field Study. Dean Gifford, Professors Brower, Buff, Hawkins and Peterson.

Committee on Guidance and Counseling. Deans Ward (Chairman), Littlefield, Reed, Gooding, and Routh, Dr. Brown, Dr. May, Professors Coplin, Fischer and Halsted and religious adviser(s).

Committee on Honorary Degrees. Professors Latham (Chairman), Brower and Mishkin; three students to be elected in the fall.

Committee on Independent Study. Dean Gifford, Professors Aitken, Pitkin, and Karfunkel.

Committee on Intercollegiate Athletics. President Ward, Dean Gifford, Professors Coplin, McCabe, Mehr (Secretary), Pitkin, Thurston and Valberg.

Committee on Interdisciplinary and Special Studies. Dean Gifford, Professors Dempesy (Chairman), Guttmann, and Nicholson.

Language Advisory Board. Deans Reed and Gooding, Professors Carre and Towne.

Lecture Committee. Professors Sargent (Chairman), Sears, and Spratlan.

Library Committee. Professors Babb, Cody (*ex officio*), Fischer, Halsted, Kaplan, Marshall and Sargent, Mr. Laugher (*ex officio*); two students to be elected in the fall.

Lucius R. Eastman Fund Committee. Professors Leadbetter, Nicholson and Wheelock.

Fellows

Jonathan L. Alper '71, *Roland Wood Fellow in Drama.* Webber-Douglas Academy in London.

Terry Leland Andrews '71, *Amherst Memorial Fellow in Cinema Studies.* New York University.

Mitchell Graham Ash '70, *Forris Jewett Moore Fellow in History.* Harvard University.

Mitchell Warren Blair '72, *Amherst Memorial Fellow in Education.* Claremont Graduate School.

Peter Northrup Brown '68, *John Woodruff Simpson Fellow in Law.* University of Southern California Law School.

James Julius Brudney '71, *Forris Jewett Moore Fellow in Politics,* Philosophy and Economics. Oxford University.

James Lawrence Butrica '72, *Amherst Memorial Fellow in Classics.* University of Toronto.

David Randall Case '72, *Evan Carroll Commager Fellow in Law.* St. John's College.

Anthony Sing Lam Chan '72, *Charles B. Rugg Fellow in Law* and *John Woodruff Simpson Fellow.* Harvard Law School.

Donald Lorne Coyle '72, *Benjamin Goodall Symon, Jr. Fellow in Theology.* Episcopal Theological School at Harvard.

Michael Patrick Dore '72, *John Woodruff Simpson Fellow in Law.* Rutgers University Law School.

Douglas A. Fitts '72, *Edward Hitchcock Fellow in Physical Education.* University of Massachusetts.

Timothy Ward Fort '72, *Roland Wood Fellow in Drama.* The University of Toronto.

George Henry Freeman '71, *John Woodruff Simpson Fellow in Law.* Harvard Law School.

Clayton Porter Gillette '72, *John Woodruff Simpson Fellow in Law.* University of Michigan Law School.

Thomas Park Gilliss '70, *John Woodruff Simpson Fellow in Law.* Catholic University Law School.

Steven Mark Gluckstern '72, *Warner Gardner Fletcher Fellow in Education.* University of Massachusetts School of Education.

Robert Wilson Hawkins '71, *Evan Carroll Commager Fellow* and *Forris Jewett Moore Fellow in Jurisprudence.* St. John's College, Cambridge.

Kenneth Allen Hoxsie '72, *Forris Jewett Moore Fellow in History.* Oxford University.

John Sumner Ingalls '72, *John Woodruff Simpson Fellow in Law.* Stanford, University of Virginia School of Law.

Napoleon Jasper, Jr. '72, *John Woodruff Simpson Fellow in Law.* University of St. Louis Law School.

Douglas Clark Johnson '72, *George A. Plimpton Fellow in Medicine.* Harvard Medical School.

Michael Harry Kelleher '72, *John Woodruff Simpson Fellow in Medicine.* University of Rochester Medical School.

Richard Allen Kelly '67, *Amherst Memorial Fellow* and *Forris Jewett Moore Fellow in Philosophy.* University of Leeds.

Christopher Jerrell Leininger '69, *John Woodruff Simpson Fellow in Medicine.* New York University School of Medicine.

David Jeffrey Levenson '72, *George A. Plimpton Fellow in Medicine.* Harvard Medical School.

Robert Lockwood Lind '72, *Edward Poole Lay Fellow in Music.* University of California, Berkeley.

John Perkins Mackie '71, *George Stebbins Moses Memorial Fellow in Theology.* Harvard Divinity School.

Michael Peter Madow '71, *Rufus B. Kellogg University Fellow in Philosophy.* Oxford University.

Kenneth Trerise Martin '70, *Amherst Memorial Fellow in Classics.* Wadham College, Oxford.

Kenneth Sargeant May II '70, *John Woodruff Simpson Fellow in Law.* Columbia Law School.

Woodson Charles Merrell '71, *John Woodruff Simpson Fellow in Medicine.* Columbia Medical School.

Harry Geoffrey Morrison '70, *Roswell Dwight Hitchcock Memorial Fellow in American History.* Brown University.

Jeffrey Lewis Payton '72, *John Woodruff Simpson Fellow in Law.* University of Connecticut Law School.

Edward Rooker Phillips '71, *Edward Poole Lay Fellow in Music.* Paris, France.

Lee Sumner Richards, III '72, *John Woodruff Simpson Fellow in Law.* Columbia Law School.

Paul David Salmi '72, *John Woodruff Simpson Fellow in Law.* Harvard Law School.

Jerry Karl Scheinfeldt '72, *Amherst Memorial Fellow in Education.* Trinity College.

Dale Frederick Swartz, III '72, *John Woodruff Simpson Fellow in Law.* University of Chicago Law School.

David Samuel Turesky '72, *John Woodruff Simpson Fellow in Law.* Harvard Law School.

Edward James Vairo '72, *Amherst Memorial Fellow in Classics.* Yale University.

Tsiambu Ibrahim Sixtus Vusi '72, *Amherst Memorial Fellow in Applied Mathematics.* Rensselaer Polytechnic Institute.

James Bradford Ward '72, *Amherst Memorial Fellow in Biology.* Duke University.

Thomas Eliot Wartenberg '71, *Sterling P. Lamprecht Fellow in Philosophy.* Princeton University.

John Benton Warthen, III '71, *Henry P. Field Fellow in English.* University of Chicago.

Arthur Carroll Wilkins '72, *Roland Wood Fellow in Drama.* The DeCroux Mime School in Paris.

Robert Joseph Yamins '72, *Edward Poole Lay Fellow in Music.* The Manhattan School of Music.

Yasuhiro Yano '72, *Amherst Memorial Fellow in English.* Keble College, Oxford.

Officers of Administration

John William Ward, *President of the College.* A.B. (1947) Harvard College; M.A. (1950), Ph.D. (1953) University of Minnesota; M.A. (hon. 1965) Amherst College.

Prosser Gifford, *Dean of the Faculty.* B.A. (1951) Yale University; B.A. (1953) Merton College, Oxford University; LL.B. (1956) Harvard Law School; Ph.D. (1964) Yale University; M.A. (hon. 1969) Amherst College.

Robert Appleby Ward, *Dean of Students.* B.A. (1957) Amherst College; Ed.M. (1966) Harvard University.

Edward Baker Wall, *Dean of Admission.* B.A. (1956) Yale University.

Michael Clare Behnke, *Assistant Dean of Admission.* B.A. (1965) Amherst College; M.A. (1970) University of Pennsylvania.

Stephen Ralph Gang, *Assistant to the Dean of Admission; Graduate Fellow on the Mayo-Smith Teaching Grant.* B.A. (1972) Amherst College.

Wayne Marvin Wormley, *Assistant to the Dean of Admission; Graduate Fellow on the Mayo-Smith Teaching Grant.* B.A. (1972) Amherst College.

Nathaniel Reed, *Assistant Dean.* B.A. (1955), Ph.D. (1964) Yale University.

Donald McMillan Routh, *Assistant Dean.* B.A. (1958) Amherst College; M.A.T. (1960) Johns Hopkins University.

Henry Miller Littlefield, *Assistant Dean.* B.A. (1954), M.A. (1959), Ph.D. (1967) Columbia University.

Richard M. O'Daniel, *Assistant Dean.* B.A. (1968) Lincoln University.

Robert Freeman Grose, *Registrar.* B.A. (1944), M.S. (1947), Ph.D. (1953) Yale University; M.A. (hon. 1970) Amherst College.

Gerald Mager, *Assistant Registrar.* A.B. (1965), A.M. (1967), Ph.D. (1972) University of Illinois.

Kurt Maximilian Hertzfeld, *Treasurer.* B.A. (1941), M.B.A. (1942) Harvard University; M.A. (hon. 1969) Amherst College.

Thomas Alvan Weber, *Assistant to the Treasurer.* B.A. (1967), M.B.A. (1969) Harvard University.

George Burnham May, *Comptroller and Assistant Treasurer.* B.A. (1946) Amherst College.

Richard Edward Green, *Assistant Comptroller.* B.B.A. (1966) Western New England College.

Paul Jerome Plourde, *Director, Computer Center.* B.A. (1962) University of New Hampshire; M.A. (1967) Northeastern University.

David Frederick Howland, *Personnel Officer.* B.A. (1950) Hofstra University.

John Lewis Callahan, Jr., *Director of Development.* B.A. (1955) Dartmouth College; M.A. (hon. 1970) Amherst College.

Norman Hayes Lowe, *Assistant Director of Development.* B.A. (1965) Middlebury College.

James Alfred Guest, *Secretary to the Committee on Deferred Gifts and Bequests.* B.A. (1933), L.H.D. (1971) Amherst College; LL.B. (1936) Yale University.

Frederic John Gardner, *Secretary of the Alumni Council.* B.A. (1949) Amherst College.

Timothy Woodhouse Armour, *Graduate Fellow in the Alumni Office.* B.A. (1970) Amherst College.

Horace Wilson Hewlett, *Secretary of the College and Director of Publications.* B.A. (1936) Amherst College; M.A. (1941) Yale University.

Andrew DeToma, *Assistant Secretary of the College.* B.S. Ed. (1963) Massachusetts State College at Fitchburg; M.A. (1965) University of Massachusetts.

Rowland Marshall Schell, *Assistant to the Secretary of the College; Graduate Fellow on the Ives Washburn Grant.* B.A. (1972) Amherst College.

Richard Shelley Light, *Audio-Visual Specialist.* B.S. Ed. (1952) West Chester State College.

Otis Cary, *Director of Amherst House, Doshisha University.* B.A. (1946) Amherst College; M.A. (1951) Yale University.

William August Mueller, *Director of Physical Plant and Services.* B.Aero.E. (1942), B.C.E. (1952) Rensselaer Polytechnic Institute.

Walter Charles Markert, *Assistant Director of Physical Plant and Services.* B.S. (1931) Springfield College.

William Maurice Golding, *Director of Valentine Hall.*

Benjamin Franklin McCabe, *Director of Intercollegiate Athletics.* B.A. (1946) Iowa State Teacher's College; M.A. (hon. 1964) Amherst College.

Robert May, *Clinical Psychologist.* B.A. (1962) Wesleyan University; M.A. (1965), Ph.D. (1969) Harvard University.

Stephen Brown, *College Physician.* B.A. (1928) Amherst College; M.D. (1932) Yale University.

AMHERST COLLEGE

Sanford Bloomberg, *Associate College Physician.* B.A. (1950) University of Vermont; M.A. (1951) Columbia University; M.D. (1957) University of Vermont College of Medicine.

Daniel Phillip Schwartz, *Associate College Physician.* B.A. (1949), M.D. (1952) University of Minnesota.

Thomas Clifford Wilson, *Associate College Physician.* B.A. (1950) West Virginia University; M.D. (1960) Medical College of Virginia.

David Carleton Yates, *Graduate Fellow in the Pratt Museum.* B.A. (1972) Amherst College.

MEAD ART BUILDING

Frank Anderson Trapp, PH.D., *Director*

Lewis Shepard, M.A., *Curator*

THE ROBERT FROST LIBRARY

Richard John Cody, PH.D., *Librarian of the College*

Charles Theodore Laugher, PH.D., *Director of Robert Frost Library*

Claire Holst, B.A., M.S. in L.S., *Order Librarian*

Floyd Samuel Merritt, M.A., S.M., *Reference Librarian*

J. Richard Phillips, B.A., M.A., *Special Collections Librarian*

Eleanor T. Brown, B.A., M.S. in L.S., *Head of Circulation*

Elinor A. Richards, B.A., A.M.L.S., *Chief Cataloguer*

Helen Collery, B.A., *Science Library Assistant*

Hertha Banfield, *Serials Librarian*

Carol Porter Baldwin, *Cataloguer*

Nancy Hathaway Buck, B.A., M.S. in L.S., *Cataloguer*

Sally Evans, B.A., M.S.L.S., *Cataloguer*

Mary McFeely, B.A., M.S. in L.S., *Assistant Reference Librarian*

KIRBY MEMORIAL THEATER

Walter Leroy Boughton, M.F.A., *Director*

Dennis Lee Dorn, M.F.A., *Technical Director*

Eugene Warner, M.F.A., *Designer*

THE PRATT MUSEUM OF GEOLOGY

Gerald Patrick Brophy, PH.D., *Curator*

Edward S. Belt, PH.D., *Associate Curator*

COMPUTER CENTER

Paul J. Plourde, B.A., M.A., *Director*
Clela B. Reeves, B.A., M.A., *Systems Analyst*
David Hornfischer, B.A., *Systems Analyst*
David B. Cernak, B.A., *Systems Analyst*
Elizabeth Steele, B.S., *Academic Computer Coordinator*
Frederick G. Roberts, *Operations Manager*

AMHERST COLLEGE WILDLIFE SANCTUARY

Walter Charles Markert, B.S., *Director*

MABEL LOOMIS TODD FOREST

Lincoln Pierson Brower, PH.D., *Curator*

RELIGIOUS ADVISORS

The Rev. James Clark, B.D.
Advisor to Protestant Students

The Rev. Charles R. Farrell, B.D.
Advisor to Protestant Students

The Rev. Richard E. Koenig, B.D., S.T.M.
Advisor to Protestant Students

The Rt. Rev. Monsig. David J. Power, B.A.
Advisor to Roman Catholic Students

The Rev. J. Joseph Quigley, B.S.
Advisor to Roman Catholic Students

Rabbi Yechiael Lander, B.A., B.H.L, M.A.
Advisor to Jewish Students

STUDENT HEALTH SERVICE

Mary Margaret Barkowski, R.N.
Supervisor of Student Health Office

Marjorie Ruth Crossman, R.N.
Assistant Supervisor of Student Health Office

Helen Bolt Stimson, R.N.
Supervisor of the Infirmary

FIVE COLLEGES INCORPORATED

North Burn, PH.D., *Five College Co-ordinator*
Dean Prosser Gifford, *Amherst College Deputy*

II

AMHERST COLLEGE
ADMISSION
REGULATIONS
TUITION AND FEES
FINANCIAL AID
DEGREE REQUIREMENTS
INTELLECTUAL RESPONSIBILITY

Kirby Memorial Theater

Amherst College

AMHERST was founded in 1821 as an independent liberal arts college for "the education of indigent young men of piety and talents for the Christian ministry." It has never been connected, however, with any church or sect. Its charter, granted by the Commonwealth of Massachusetts in 1825, bans tests of religion in choosing students and teachers.

Among Amherst's founders were Noah Webster, the lexicographer, and Samuel Fowler Dickinson, grandfather of the poet Emily. The College received its initial support from many residents of the town from which it takes its name. (The town, which was incorporated in 1759, was named for General Jeffery Amherst, then Commander-in-chief of British forces in the New World and protector of the colonies in the French and Indian War.) The College has enjoyed a long and close association with the community, particularly with such poets and writers as Emily Dickinson, Helen Hunt Jackson, David Grayson (Ray Stannard Baker), and Robert Frost.

The campus is situated on a hill adjacent to the central town common. The surrounding area is characterized by apple orchards and tobacco farms lying on the flat, fertile land of the Connecticut River Valley and by ranges of hills to the south and east. Nearby are towns and places whose names recall another age in the life of New England: Deerfield and Bloody Brook, Pelham and Daniel Shays Highway, Northampton and Jonathan Edwards' Church. A few miles away are four other institutions of higher learning: Hampshire, Smith, and Mount Holyoke Colleges, and the University of Massachusetts with which Amherst engages in a number of cooperative educational ventures. (These are described on page 38.)

The College offers the bachelor of arts degree and cooperates with the University of Massachusetts in a Five College Ph.D. program. The College curriculum involves study in the humanities, the social sciences, and the natural sciences and combines a broad education with knowledge of some field in depth. Emphasis falls upon each student's responsibility for the selection of an appropriate program. Special freshman seminars exist to assist an exploration of various aspects of intellectual commitment. Freshmen may select a major field of study on entrance; exceptionally qualified students may satisfy graduation requirements in three years; some may engage in independent study free of formal courses in their junior and senior years; honors work—the intensive consideration of a limited subject —is encouraged.

Whatever the form of academic experience—lecture course, seminar, conference, studio, laboratory, independent study at various levels—intellectual competence and awareness of problems and methods are the goal of the Amherst program, rather than the direct preparation for some profession. The curriculum enables students to arrange programs for their own educational needs within established guidelines. To assist undergraduates in their course selections, faculty advisors, representing all academic departments, have been selected. They provide such counsel as is requested, but the ultimate responsibility for a thoughtful program of study rests with the individual student.

All students subscribe to an honor code which makes them responsible for the intellectual integrity of their work. This is described on page 62.

A statement of graduation requirements and programs of study begins on page 55. A more detailed description of the curriculum may be obtained from the Office of Admission.

The College's faculty is engaged in two primary activities: first, the education of undergraduates, and, second, research and writing. Its 150 members hold degrees from colleges and universities throughout this country and abroad. Classes range in size from a lecture course of 180 to several courses of only five students; about 80 percent of the classes and sections have twenty-five students or less.

Amherst is equipped with considerable physical resources: a library of some 441,715 volumes, science laboratories, theater, gymnasium, swimming pool, skating rink, squash and tennis courts, playing fields, a museum of fine arts and another of natural sciences, a central dining hall where all students eat, dormitories, language laboratory, and classroom buildings. There are a wildlife sanctuary and a forest for the study of ecology, an observatory and planetarium, a computer center, and varied equipment for specialized scientific research. At Amherst, and at its neighboring institutions, there are extensive offerings of lectures, concerts, plays, films, and many other events. The College's endowment is approximately $57 million (book value).

In the early 1960s Amherst increased its enrollment from 1,000 to approximately 1,200 students. To accommodate these additional undergraduates and to provide improved facilities the College constructed a new dining hall, five new dormitories, and the Robert Frost Library. New buildings for science and music were completed in 1968.

Amherst has a full program of intercollegiate athletics in most sports. Every freshman and sophomore is required to take part in a program of physical education to improve his fitness and allow him to participate in team and recreational sports. In addition, about 90 percent of the students participate in an organized program of intramural athletics.

Undergraduates may also take part in a variety of other extra-curricular activities: journalism, publishing, broadcasting, music, dramatics, and a wide assortment of specialized interests. Religious groups, working inde-

pendently or through the religious advisors, maintain a program of worship services, Bible study, community service projects, and other activities.

Many Amherst students join a social fraternity or house at the end of their freshman year. These organizations provide housing for many of their members and are one focus of social life after the first year. Since 1946 the fraternities have selected their members without consideration of race or religion, and since 1951 every student who has wanted to join a fraternity has had the opportunity to do so.

As the campus has grown so has the College's involvement with the world. In 1821 most students came to Amherst from nearby towns intending to become ministers or missionaries. Facilities were simple; for three years South College was Amherst's only building, housing dormitory, library, and classrooms. Today students come from most of the fifty states and many foreign countries and bring with them backgrounds and interests far different from those of the "indigent young men of piety and talents" who preceded them nearly a century and a half ago.

Instruction still adheres to the liberal arts and sciences, but world forces are now felt in the classroom and out. Modern transportation and communication have changed what was once a sleepy little New England village into a growing center of activity and concern. Involvement in research or in social and economic issues takes some students to many parts of the country and abroad—as it does most of their teachers as well. Civil rights issues and national policies have an impact on the campus that would have been unimaginable even a generation ago. Graduates for the most part continue their formal education to become teachers, physicians, lawyers, and businessmen. At Amherst, hopefully, they will have only begun their education at "commencement," but will have developed attitudes and values that will encourage them to participate thoughtfully and generously in the service of mankind.

THE INTERTERM

The January Interterm is a four-week period between semesters free from the formal structures of regular classes, grades, and academic credit. It is, in essence, a time when each student may undertake independent study in a subject or area to which he might not have access during the normal course of the year.

A student may center his activities on the campus or elsewhere as he chooses. He may read, write, paint, compose, or inquire into some question or concern as his inclination, ingenuity, and resources permit. He may wish to explore further or more deeply a subject which has aroused his curiosity or about which he wishes to know more. He may also, if a teacher agrees to assist him, seek guidance from or work with a member of the faculty and other students in a joint endeavor.

The purpose of the Interterm is to remove, for four weeks, the constraints that prevail during normal class work and permit students to adjust their inquiry to their own interests and capabilities. With this freedom each student assumes the responsibility of using his time to his best advantage and of increasing his understanding of himself and of his educational and social environment.

PRESIDENTS OF AMHERST COLLEGE

1821–1823	Rev. Zephaniah Swift Moore, D.D.
1823–1845	Rev. Heman Humphrey, D.D.
1845–1854	Rev. Edward Hitchcock, D.D., LL.D.
1854–1876	Rev. William Augustus Stearns, D.D., LL.D.
1876–1890	Rev. Julius Hawley Seelye, D.D., LL.D.
1890–1899	Merrill Edwards Gates, PH.D., LL.D., L.H.D.
1899–1912	Rev. George Harris, D.D., LL.D.
1912–1924	Alexander Meiklejohn, PH.D., LL.D.
1924–1927	George Daniel Olds, LL.D.
1927–1932	Arthur Stanley Pease, PH.D., LL.D.
1932–1946	Stanley King, LL.D.
1946–1960	Charles Woolsey Cole, PH.D., L.H.D., SC.D., LITT.D., LL.D.
1960–1971	Calvin Hastings Plimpton, M.D., SC.D., D.M.S., L.H.D., LITT.D., LL.D.
1971–	John William Ward, PH.D.

FIVE COLLEGE COOPERATION

Amherst has an arrangement with Mount Holyoke College, Smith College, Hampshire College and the University of Massachusetts by which any of their regular courses is, under special circumstances, open to Amherst students. See page 60 for further information.

The oldest cooperative venture is the Hampshire Inter-Library Center (HILC) located now in the Goodell Library at the University. HILC, a separate legal entity, is a depository for research materials and learned journals which are beyond the reach of any of the five libraries operating independently. An FM radio station (WFCR, 88.5 mc.) is run cooperatively through the Western Massachusetts Broadcasting Council composed of representatives of the five institutions. Other cooperative activities include a joint Astronomy Department; courses in the History of Science and in African-

American studies; a Ph.D. program; a common calendar of events; a committee on transportation; a registry of part-time workers; and a Coordinator for cooperative projects.
NORTH BURN, PH.D., *Coordinator*

NATIONAL THEATRE INSTITUTE

Through a Twelve College Interchange arrangement, undergraduate participation in the program of the National Theatre Institute, Waterford, Conn., is possible. Further information is available in the Office of the Dean of Students.

The Folger Shakespeare Library

THE FOLGER SHAKESPEARE LIBRARY in Washington, D.C., was established by the will of Henry Clay Folger, of the class of 1879. Mr. Folger's original collection, which remains the nucleus of the Library's holdings, emphasized Shakespeare, Shakespeare's contemporaries, and the history of Shakespeare production. Continuing acquisitions of books and manuscripts have increased the size of the collection many times over and broadened the scope of the Library to include every phase of Tudor and Stuart civilization. At present the Library is second only to the British Museum in its holdings of books printed in England between 1475 and 1640. Its holdings in the period from 1640 to 1715, in materials relating to the Continental Renaissance, and in such specialized areas as Renaissance musicology and drama are also extensive.

Facilities include reading room, stacks, offices, and service areas for such activities as ordering, cataloging, binding, and photoduplication. In addition, the Library has a public exhibit hall and a theatre embodying characteristics of an Elizabethan playhouse.

Mr. Folger intended his library to be an active educational center "for the promotion and diffusion of knowledge in regard to the history and writings of Shakespeare." The Library has sought continuously since its creation to enlarge its educational function. Its reading room is open to all qualified scholars. Through its photoduplication department and its travelling exhibits it provides services for scholars and school groups outside of the Washington area. A docent program offers tours and lectures to visiting school groups. The Folger Fellowship program offers senior, short-term, and dissertation year fellowships to both foreign and American scholars. Folger seminars are offered annually in cooperation with the consortium universities of the Washington area and are also open to qualified Amherst students. A program of lectures, concerts, and cultural events is held at the Folger theatre and open to the general public without charge. A repertory

group produces four to five dramas each year in the theatre. A publication program further contributes to the Library's objective of "diffusing knowledge" of Shakespeare, of English culture, and of the Renaissance.

FOLGER LIBRARY OFFICERS

O. B. Hardison, Jr., PH.D., *Director*
Philip A. Knachel, PH.D., *Associate Director*
Richmond Crinkley, PH.D., *Director of Programs*
Richard J. Schoeck, PH.D., *Director of Research Activities*
Dorothy E. Mason, M.A., *Reference Librarian*
Lilly C. Stone, B.A., *Head Cataloguer and Curator (Printed Books)*
Sandra Powers, M.A., *Reading Room Supervisor*
Elizabeth Niemyer, M.A., *Acquisitions Librarian*
Megan Lloyd, B.A., *Executive Editor*

Doshisha University

DOSHISHA UNIVERSITY in Kyoto, Japan, was founded by Joseph Hardy Neesima, of the Class of 1870, the first Japanese to graduate from a Western institution of higher learning. Amherst has maintained a continuing and close relationship with Doshisha. More than twenty-five Amherst graduates have taught there, and, since 1922, Amherst has maintained a resident instructor at the Japanese university. Amherst House, a New England Georgian style residence, was built on the Doshisha campus in 1932 as a memorial to Neesima. It houses some twenty Doshisha students and serves as a center for cultural exchange between students and faculty from East and West.

Since World War II, Amherst has maintained a member of its own faculty for permanent service at Doshisha as a Professor in Residence and Director of Amherst House. Recently he has been aided by an Amherst-Doshisha Fellow on a yearly assignment. In 1962 the College, through the further generosity of friends and alumni, was enabled to build a new guest house of modern Japanese design which affords quarters for the director, well-appointed guest suites, and dining facilities to enhance the possibilities of exchange across cultural barriers. As the importance of Eastern ideas and Asian cultures gains increasing recognition, Amherst House is able to provide unique facilities and a sympathetic environment for scholars visiting Kyoto—for a thousand years the capital of Japan and still the center of traditional Japanese culture.

Admission

ADMISSION to Amherst College is highly competitive. The College attempts to select those applicants who seem qualified to benefit from the educational opportunities offered. The Committee on Admission, in judging the qualifications of an applicant, pays particular attention to (1) the quality of his academic program as well as his academic achievement; (2) results of the College Entrance Examination Board scholastic aptitude and achievement tests; (3) the recommendation of the college counselor; (4) evidence of intellectual curiosity, imagination and resolution; (5) the character, health, and extra-curricular interests and achievements of the applicant. All freshmen admitted are candidates for the Bachelor of Arts degree.

In compliance with the Fair Educational Practices Act of the Commonwealth of Massachusetts, the College requests that applicants *not* provide data on race, religion, and place of origin and that they *not* include a photograph. No student is denied admission to Amherst because of race, religion or place of origin.

HOW AND WHEN TO APPLY FOR ADMISSION

Applications should be filed in senior year between September 1 and March 1. Decisions of the Committee on Admission will be mailed to candidates about mid-April.

Students with exceptional ability and maturity who have outrun the educational opportunities of their communities may apply for admission after three years of secondary school.

Amherst has an Early Decision Program for students who have selected Amherst as the college of their choice. Details are available with the application form.

Beginning students usually enter only in September.

Financial Aid applicants should refer to pages 51–54.

The formal application should be accompanied by a check or money order for $15.00 made payable to *Amherst College*. This application fee will not be refunded if the student withdraws his application or if his application is not acted upon favorably.

Correspondence regarding admission to the freshman class should be addressed to the Dean of Admission, Amherst College, Amherst, Massachusetts 01002.

INTERVIEW HOURS

A personal interview is not required for admission to Amherst College. However, applicants, especially those who live within 200 miles of the

campus, are encouraged to visit the College to discuss their educational plans with a member of the admission staff.

Throughout the year the Office of Admission is open for personal interviews from Monday through Friday from 8.30 a.m. to 12:00 noon and from 1:30 p.m. to 4 p.m. Between Labor Day and Christmas, it is open on Saturday from 8:30 a.m. to 12:00 noon. It is always advisable to telephone well in advance for a definite appointment.

Because of the tremendous crush of visitors during October and November, group interview sessions are conducted from Monday through Friday at 11:30 a.m. and 3:30 p.m. and on Saturday at 11:30 a.m. after the individual appointment calendars have been filled. In this way, no one will be denied an opportunity to meet with a member of the admission staff during this busy season of the year.

RECOMMENDED PREPARATION

The following minimum program for studies is recommended for students planning to enter Amherst College:

English	4 years
Mathematics	3 years
Foreign Language	2 years (3 or 4 years of one preferred)
History or Social Science	1 year
Laboratory Science	1 year

It should be noted that the College stresses sound preparation in certain subjects which are important implements for the many branches of college work. English, mathematics (intermediate mathematics, emphasizing basic algebraic, geometric, and trigonometric concepts and deductive reasoning), and foreign language (ancient or modern or both) are the subjects in which entering students should show proficiency.

Candidates who apply from secondary schools which offer little or no language instruction will be judged by their other intellectual aptitudes and achievements and their readiness for the Amherst curriculum.

Students with particular interests may wish to modify the suggested program by taking more work in certain subjects and less in others. Such modification is wholly acceptable, provided there is evidence of adequate preparation in the basic fields of English, mathematics, and foreign language. Any deviation should be discussed in advance with the Dean of Admission.

ADVANCED PLACEMENT

Advanced placement is offered to accepted candidates who present evidence through school records and test scores that their previous learning experience in a subject will be duplicated in an introductory course at Amherst.

Each case will be considered individually on its own merit. Amherst College credit is not given for advanced placement courses. Candidates interested in Advanced Placement are urged to take the Advanced Placement Tests given by the College Entrance Examination Board. Questions about Advanced Placement should be directed to the *Dean of Admission*. For further information, candidates should consult the Advanced Placement booklet in their secondary school guidance office.

COLLEGE BOARD TESTS

All applicants for admission are required to take *either* the Scholastic Aptitude Test (SAT) and any three Achievement Tests of the College Entrance Examination Board, *or* the American College Testing Program (ACT) no later than January of senior year for the former and no later than December of senior year for the latter. Inasmuch as the registration deadline for both the CEEB and ACT tests is approximately one month prior to the test date, applicants should arrange to take these examinations as soon as possible with the Secretary of the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540. Students living in Arizona, Arkansas, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oklahoma, Oregon, Texas, Utah, Washington, Wyoming, Alaska, or Hawaii should register with the Secretary of the College Entrance Examination Board, Box 1025, Berkeley, California 94701. For information about ACT tests, write ACT, P.O. Box 168, Iowa City, Iowa 52240.

Amherst College will continue to maintain the standard of comprehension in foreign languages as set for students by the foreign language departments and approved by the Faculty. This standard may be met in advance by a score of 600 on the CEEB's Listening-Reading Achievement Test for a modern language, or the Achievement Test for an ancient language, or by similar scores on our own placement tests given during Freshman Orientation.

Applicants in military service whose location makes examinations impossible are exempt from CEEB tests.

Regents Examinations. Applicants from the New York State public schools are expected to submit scores made on the Regents Examination in addition to the scholastic aptitude and achievement tests given by the College Entrance Examination Board.

ADMISSION AS A TRANSFER

To be eligible for consideration as a transfer a candidate must meet the following requirements:

1. His credits must satisfy the full entrance requirements of Amherst College.

2. He must have completed creditably the work of at least one year in an institution of collegiate rank or two years in a junior or community college.

3. He must present a statement of honorable dismissal.

4. He must file a formal application for admission by transfer.

Candidates for admission by transfer are usually admitted in September.

Candidates should note that, in general, only students with a B average or better will be considered for admission as transfers.

Special consideration is given to graduates of junior or community colleges who have made distinguished academic records.

Financial aid is available for transfer students.

Correspondence concerning admission of transfers should be addressed to the Dean of Admission.

COOPERATIVE ENGINEERING-SCIENCE PROGRAM

In order to facilitate the combination of a liberal arts course with education in science and engineering, Amherst College will permit a student of high standing to pursue a five-year program in which the first three years will be spent at Amherst College and the last two years at the Massachusetts Institute of Technology, or any other engineering school approved by the Dean of the College, with the understanding that if the five-year program is satisfactorily completed the student will receive the degree of Bachelor of Arts from Amherst College and the degree of Bachelor of Science from the engineering school.

PART-TIME STUDY

All regular students at Amherst College pursue their studies on a full-time basis. However, the Faculty recognizes that the College and the community benefit from the presence of a limited number of part-time students at Amherst. Persons not regularly enrolled may take courses, receive grades, and secure transcripts of the record of their work. Applications for admission for part-time study are handled by the Admission Office. No part-time student may be admitted to a course without the consent of the instructor.

Regulations

TERMS AND VACATIONS

The college year 1972-73 includes two regular semesters, the first with thirteen weeks and the second with fourteen weeks of classes. In the fall semester there is a Thanksgiving recess of one week. After the Christmas recess, there is a January Interterm of approximately four weeks. In the spring semester there is a vacation of one week.

All official college vacations and holidays are announced on the College Calendar appearing at the beginning of this catalog.

ATTENDANCE AT COLLEGE EXERCISES

It is assumed that students will make the most of the educational opportunities available by regularly attending classes and laboratory periods. At the beginning of the semester, each instructor is free to state his policy with regard to absences in his course. Thereafter, he may take such action as he deems appropriate, or report to the Dean of Students the name of any student who disregards the regulations announced.

The Registrar will send to faculty members a list of students who have been absent for athletic trips or other extra-curricular activities, and a list of students who have been in the Infirmary. Students are asked to notify the Office of the Dean of Students if they have been delayed at home by illness or family emergencies. They are also requested to report any unusual or unexplained absence from the College on the part of any fellow student.

If a student has been attended at home by a physician, he should, on the day of his return, report the absence to the Office of the Dean of Students and submit a statement concerning his illness and any recommended treatment to the Student Health Office. Students who are ill at College will normally be attended at the Infirmary or the Student Health Office. It is assumed that all students not admitted to the Infirmary or excused by the attending physician are well enough to attend their regular classes.

The responsibility for any work missed due to an illness or other absence rests entirely upon the student.

The College maintains a Physical Education requirement, and for that purpose the academic year is divided into four units, fall, winter I, winter II, and spring. Each freshman is expected to complete two units of physical education during his first year, and if a student fails to do so, he will be required to make up his deficiency during his upper class years. During the sophomore year students are expected to participate in an individually struc-

tured physical education program which is devised by the student himself and is supervised by a member of the department.

STUDENT CONDUCT

It is the belief of Amherst College that its students want to take responsibility for setting, maintaining, and supporting moral and intellectual standards. Those standards are assumed to be ones which befit the conduct of a gentleman and which will reflect credit on the College, its students, and its guests.

The College reserves the right to exclude at any time students whose conduct or academic standing it regards as unsatisfactory; in such cases fees will not be refunded or remitted, in whole or in part, and neither the College nor any of its officers shall be under any liability whatsoever for such exclusion.

RECORDS AND REPORTS

Grades in courses are reported in three categories:

Honor Grades = A+, A, A−, B+, B, B−

Passing Grades = C+, C, C−, D.

Failing Grade = F.

Term averages and cumulative averages are reported on a 14-point scale rounded to the nearer whole number. The conversion equivalents are: A+ = 14, A = 13, A− = 12; B+ = 11, B = 10, B− = 9; C+ = 8, C = 7, C− = 6; D = 4; F = 1.

Grade reports for D and F grades only will be sent to students after the end of the seventh week of classes each semester. Parents of freshmen will also receive grade reports for D and F grades after the first seven weeks of each semester. Reports for all grades and averages will be sent at the end of each semester.

The academic records and averages of Amherst College students completing Five-College Interchange courses at Hampshire College, Mount Holyoke College, Smith College and the University of Massachusetts will include these courses and grades; no separate transcripts are maintained at the other institutions for Amherst College students.

"Rank in class" will not be used, but transcripts and grade reports will be accompanied by a profile showing the distribution of cumulative averages for students of the same class level in the current and in the previous two years.

Student academic records are maintained by the Registrar's Office and are confidential; information is released only at the request of the student or of appropriate institutions. Students are advised that their records are

made available to their secondary schools and to certain legitimate research agencies such as the National Registration Office. Partial transcripts are not issued; each transcript must include the student's complete record at Amherst College to date. An official transcript carries an authorized signature as well as the embossed seal of Amherst College.

Transcripts of credit earned at other institutions, which have been presented to Amherst College for admission or transfer of credit, become a part of the student's permanent record and are not issued, reissued or copied for distribution. With the exception of Five-College Interchange courses, grades for courses that were transferred from other institutions are not recorded; credit only is listed on the Amherst transcript. Transcripts for all academic work at other institutions of higher education should be requested directly from those institutions, including summer schools.

EXAMINATIONS

Examinations are held at the end of each semester and at intervals in the year in all courses. At the end of each semester, final grades are reported and the record for the semester is closed. No extension of time is allowed for intra-term examinations and incomplete laboratory work beyond the date of the last scheduled class period of the semester, unless exception is granted by the instructor and the Dean of Students.

A student who is prevented by illness from attending a semester examination may be granted the privilege of a special examination by the instructor and the Dean of Students, who will arrange the date of the examination with the instructor. There are no second or make-up semester examinations, unless a student is prevented by illness from taking such an examintaion at the scheduled time.

A semester examination may be postponed only by approval of the instructor and the Dean of Students.

DELINQUENCIES

At the midpoint and end of each semester, the cases of all students whose work is unsatisfactory are brought before the Deans for consideration. Those who have clearly shown their unfitness for college work are dismissed from the College. Others whose records are unsatisfactory are placed on scholastic probation.

Students belonging to one or more of the following groups may not expect to continue at Amherst College:

a. Those who in any semester are failing in two or more courses. Withdrawal from a course while failing it shall count as a failure.*

*c.f. Degree Requirements, page 55, section 1.

b. Those who in any semester fail a course and receive an average of less than 7 in courses passed.*
c. Those who in any semester pass all courses but receive an average of less than 6.
d. Those who have been in Amherst three or more semesters and have an average of less than 6 in all courses taken at the College.
e. Those who have accumulated delinquencies in three or more courses during their college careers.
f. Those who have been on probation and have failed to meet the conditions of their probation.

A student will be classified no higher than a sophomore until he has fulfilled the foreign language requirement.

The requirements of the Physical Education Department include: a) conscientious attendance; b) completion of two units of physical education; c) two units of beginning swimming for non-swimmers.

No student may take courses in a summer school to make up a delinquency incurred at Amherst College unless his summer school courses are approved in advance by the Dean of Students. Similarly, Amherst College credit will not be given for courses taken in summer school unless approval is secured in advance from the Dean of Students.

The College does not grant credit for summer school courses completed with a grade below C.

ROOMS AND BOARD

All students, unless specifically excused by the Dean, are required to live either in the dormitories of the College or in fraternity houses. Dormitory rooms are equipped with bed, mattress, pillow, chiffonier, desk, chairs, and bookcase or shelves. Occupants furnish their own blankets, linen, and towels, and may provide extra furnishings if they wish, such as rugs, curtains, lamps, etc.; they may not add beds, sofas, lounges, or other furniture of such nature except under certain circumstances. More complete regulations for dormitory occupancy are contained in the Student Handbook.

All students are required to eat in Valentine Hall unless excused by the Dean. There are no rebates for absence from meals.

A complete description of the regulations of Amherst College on such matters as Dormitories, Motor Vehicles, Student Health, Eligibility Requirements, and other areas of student life are contained in the Student Handbook.

*c.f. Degree Requirements, page 55, section 1.

Tuition and Fees

A CANDIDATE'S formal application for admission should be accompanied by a $15 application fee in check or money order payable to Amherst College. Upon notification of his admission to the College a candidate is required to return with his acceptance a non-refundable advance payment of $100 which will be credited in full on his first term bill.

Comprehensive Fee (Tuition, Room, Board)	$4,100
Student Activities Fee	64
Blue Cross-Blue Shield Student Health Plan	41
	$4,205

The first semester bill in the amount of $2,155 is mailed to all students in August and is due and payable on or before September 1, 1972. The second semester bill totaling $2,050 is mailed approximately January 1, 1973 and is due and payable on or before January 15, 1973. All college scholarships, Insured Tuition Plan payments, and any other cash payments received prior to mailing will appear as credits on the bill.

Student identification cards will be issued by the Comptroller's Office upon payment of the College bill. These cards must be obtained before course cards may be picked up.

The fee for the support of various activities of the student body for 1972-73 is determined by the Student Allocation Committee. The $64 fee (included in the first semester bill) is turned over to the Director of Student Activities for controlled expenditure through the Student Allocation Committee. This fee provides a student with a copy of the yearbook, *The Olio*, and a one-year subscription to the student newspaper and magazine, *The Amherst Student* and *The Amherst Literary Magazine*. The fee also contributes to the support of the Masquers, the Film Society, The Seventy Players, the radio station, and includes tutorial and hospital service commitments as part of the more than forty organizations which make up student activities.

The charge of $41 appears on the comprehensive bill for twelve months Accident and Sickness Insurance for the period September 1, 1972 through August 31, 1973. Details concerning the Student Health Office, the College Infirmary and the Blue Cross-Blue Shield Student Health Plan appear in the Amherst College Student Handbook.

Miscellaneous charges such as fees for late registration, extra courses, library fines, lost or damaged property, etc., are payable currently when incurred.

For delinquencies in Physical Education, a charge of $30 will be levied for each semester following sophomore year until the delinquency is removed.

Payment Plans

For those who wish the convenience of monthly payments, arrangements have been made for both a pre-payment plan and loan plan, including insurance for continued payment in case of death or disability of the parent. For further details write to: The Insured Tuition Payment Plan, 38 Newbury Street, Boston, Massachusetts 02116.

Tuition Changes

Despite every effort to maintain College fees at the lowest possible level, it has been necessary to increase the tuition fee at Amherst in each of the past six years. Therefore, students and their parents are advised that such increases may well be necessary in subsequent years. The College attempts to notify students of tuition changes at least twelve months in advance. Financial aid awards will be based on the schedule of fees in effect during the year of the award. Students who may require financial aid as the result of tuition changes are eligible to make application whenever necessary.

Refund Policy

In case of withdrawal before the opening day of a semester, all charges will be canceled.

Refund of payment for or credit on student accounts in the event of withdrawal are as follows:

TUITION

Period of attendance calculated from day of first scheduled classes:

Prior to first day—100%	$1,512.50
1 day to 2 weeks—80%	1,210.00
2 weeks to 3 weeks—60%	907.50
3 weeks to 4 weeks—40%	605.00
4 weeks to 5 weeks—20%	302.50
5 weeks or more	no refund

ROOM & BOARD

Refund shall be made on a formula basis for any student who withdraws voluntarily or who is dismissed from the college during a semester.

SCHOLARSHIP GRANTS

Scholarship grants are canceled in full when determining cash refunds.

The officer having general supervision of the collection of tuition and fees is the Comptroller.

Financial Aid

IN a sense, every student at Amherst College is on scholarship. Beginning in September, 1972, the comprehensive charge for tuition, room, board and fees will be $4,100, yet the education of each student costs the College more than $8,800 per year. General endowment income, gifts and grants to the College supply the difference.

For those students who cannot afford the regular charge, financial aid is available from a variety of sources. Through the years alumni and friends of the College have contributed or bequeathed capital funds whose income is to be used for scholarship aid to worthy students. These funds now amount to more than $4,500,000. Some, such as those designated for candidates for the ministry or those for students from certain geographical areas, are restricted in use. For the most part, however, the income from these funds may be used at the discretion of the College.

Each year the alumni of the College through the Alumni Fund contribute a substantial sum for scholarship and financial aid purposes. Several Amherst Alumni Associations also provide special regional scholarships to students from their areas; such awards are currently sponsored by the Boston, Connecticut, Minnesota, New York City, Northern Ohio, St. Louis and Wisconsin Associations. Without these alumni contributions, the College could not maintain its present financial aid program.

Additional financial aid is available to Amherst students from sources outside the College. A number of foundations and corporations grant funds which the College distributes on the basis of high merit and financial need. Notable special scholarships are granted by the Edwin Gould Foundation for Children, the Gilbert H. Grosvenor Memorial Fund, the Agnes M. Lindsay Trust, the Mayne Educational Fund, and the Charles C. Patrick Memorial Fund. The College also participates in the College Work-Study, the Educational Opportunity Grant, and the National Direct Student Loan programs of the federal government.

Amherst College has a broad financial aid program in which scholarship grants, loans and student employment all play an important part. About one third of the students receive financial aid. Awards range from $100 to $4,200.

The officer directly in charge of the administration of financial aid is Dean Routh.

FINANCIAL AID POLICY AND PROCEDURE

The College grants financial aid only in cases of demonstrated financial need, but a student's character and academic performance and promise are

important factors. A student's financial need is calculated by subtracting from his probable college-year expenses the amount which he and his family may reasonably be expected to supply. His college-year expenses include tuition, room, board, fees, transportation, a sum of $650 for books and personal expenses, including fraternity fees for upperclassmen. The family contribution is computed in accordance with the standard procedures of the College Scholarship Service. The College assumes further that each student will assist in financing his education through summer employment and part-time jobs during the college year. Students who receive financial aid may not maintain personal motor vehicles in the Amherst and Hadley area without express permission from Dean Routh.

Financial aid awards are generally a combination of scholarship grant and self-help opportunities. Under normal circumstances, after allowance has been made for the family contribution and the student contribution from savings and summer employment, the initial $1,000 of the applicant's demonstrated need will be met with a combination of college-year employment and long-term, low-interest loan and he may expect to receive gift aid to cover the balance of his need. These loans require no payment of interest or principal before graduation from Amherst or graduate school, or until completion of military, Peace Corps or VISTA service, whichever is latest. Thereafter, the loans are repayable on a monthly or quarterly basis within a ten-year period at a moderate rate of simple interest. Part of a student's loan may be forgiven if he enters certain low-paying professions of service.

Renewal of scholarship grants is not contingent upon acceptance of the loan portion; many students prefer to earn more money during the summer or at college so that no loan is needed. Students who are unable to meet the summer-earning expectation by reason of unusual or educational summertime opportunities or who find it difficult to undertake campus employment may petition for an increase in loan to cover the difference. The size of the loan portion is also influenced by the overall performance of the student. Recipients of national scholarships and outside foundation awards are often not subject to these loan provisions.

APPLYING FOR FINANCIAL AID

Financial aid candidates should file applications for financial aid at the same time they file their applications for admission. Applications must be received by the Admission Office before March 1 to be considered. An application for financial aid requires the submission of two forms: a Parents' Confidential Statement filled out by the parents, and an Amherst College Financial Aid Application filled out by the candidate for admission. Candidates may obtain copies of the Parents' Confidential Statement from their secondary school guidance counselors. Parents should send the completed form to the College Scholarship Service which will process it and forward

the results to Amherst College for evaluation and final decision. Amherst College Financial Aid Applications may be obtained from the Office of the Dean of Admission as part of the application for admission. Applicants for financial aid need not take any special examinations other than those required for admission.

Undergraduates who desire renewal of their financial aid awards or who wish to apply for financial aid for the first time must file applications by April 20. Renewal forms may be obtained in Dean Routh's Office and should be returned directly there. Upperclassmen will receive notification of their financial aid awards in July.

WILLIAM M. PREST BEQUEST

The Faculty of Amherst College, at its meeting of February 29, 1972, passed by unanimous vote a resolution that:

> . . . until such time as it votes to the contrary, the income and a portion of the principal of the Bequest of William M. Prest, Class of 1888, will be used to initiate new approaches to the problem of providing appropriate forms of financial assistance to Amherst College students.

The William M. Prest Bequest presently has a value of $735,000 and an annual income of approximately $36,000. First claim on the Prest funds will go to transfer students at Amherst, with special consideration to graduates of junior and community colleges. The balance of the income—and up to five percent of the principal—will be used to inaugurate the William M. Prest Loan Fund, a program of long-term loans at a moderate rate of interest with a graduated repayment schedule to reflect more accurately the earnings expectation of college graduates.

Although a regular financial aid application will be required from candidates for Prest Loans, they will be awarded on a less stringent basis than are the regular financial aid funds of the College. The actual demand and priority for such loans will have to be determined by experience but it is anticipated that as much as $40,000 in Prest Loans will be advanced in 1972-73.

STUDENT LOAN FUND

Through the generosity of friends of the College, the Student Loan Fund has been established from which small short-term loans may be made to a few students who require funds to meet personal emergencies or other needs for which financial aid funds may not be obtained. In accordance with the conditions set by the donors, use of the Student Loan Fund is limited to students in good scholastic standing whose habits of expenditure are eco-

nomical. The rate of interest is slightly higher and the repayment period shorter than for scholarship loans, but complete scholarship application procedure is not required.* Further information about the Student Loan Fund may be obtained from Dean Routh.

ADDITIONAL FINANCIAL AID INFORMATION

A more detailed description of the financial aid program, *Costs and Financial Aid at Amherst College,* is available upon request from the Admission Office. Questions about the financial aid policy of Amherst College should be directed to Dean Routh.

*The New England Society's Student Loaning Fund (for New England residents) and the Morris Morgenstern Student Loan Fund provide special interest-free loans on the same short-term basis as other student loans.

Degree Requirements

BACHELOR OF ARTS

THE degree, Bachelor of Arts, is conferred upon students who have satisfactorily met the requirements described below. The plan of studies leading to this degree is arranged on the basis of the equivalent of an eight-semester course to be pursued by students in residence at Amherst College.

The degree, Bachelor of Arts, *cum laude*, *magna cum laude*, or *summa cum laude* (Degree with Honors) is awarded to students who have successfully completed an approved program of honors work with a department or group.

Other students who satisfactorily meet the requirements as indicated below receive the degree, Bachelor of Arts, *rite*.

REQUIREMENTS

The Bachelor of Arts degree is awarded to students who:

1. Complete thirty-two full semester courses and four years of residence,* except that a student who has dropped a course without penalty during his first year, or who has failed a course during his Freshman or Sophomore year, shall be allowed to graduate, provided he has been four years in residence at the College and has satisfactorily completed thirty-one full courses.
2. Satisfy the foreign language requirement as specified below;
3. Complete the requirements for a major in a department or a group of departments including a satisfactory performance in the comprehensive evaluation.
4. Complete certain prescribed work in physical education;
5. Attain a general average of 6 in the courses completed at Amherst and a grade of at least 70 or C in every course completed at another institution for transfer credit to Amherst.

*In exceptional cases, a student with at least six semesters of residence at Amherst and at least twenty-four courses, excluding summer school courses not taken as make-up work or recognized as part of a transfer record, may apply for early graduation. A student seeking to graduate before he has satisfied the normal 32 course requirement will have the quality of his achievement thoroughly evaluated. He must receive the approval of his advisor, his Department, the Dean of the Faculty and finally the Faculty in order to be granted the status of a candidate for the degree.

COURSE REQUIREMENTS

All students except Independent Scholars are required to elect four full courses each semester and may elect an additional half course. The election of a half course in addition to the normal program is at the discretion of the student and without special permission. A student may not elect more than one half course in any semester except by consent of the Dean of Students and the departments concerned. In such cases the student's program will be three full courses and two half courses. Half courses are not normally included in the 32-course requirement for graduation.

In exceptional cases a student may, with the permission of both his academic advisor and the Dean of Students, take five full courses for credit during a given semester. Such permission is normally granted only to students of demonstrated superior academic ability, responsibility and will.

Any student who has failed a course will be able to take a fifth course in a given semester if, in the judgment of the Dean of Students and his advisor, this additional work can be undertaken without prejudice to his regular program.

Students who prefer to make up a failed course at another approved institution in the summer may do so.

A student may not add a course to his program after the fourteenth calendar day of the semester.

A freshman may, with the approval of the Dean of Students, drop one course during his first year without receiving a failing grade. He may drop the course either in the first or the second semester any time within the first eight weeks. Other exceptions to this rule shall be made only for medical reasons, or reasons of grave personal emergency, and shall be made only by the Dean of Students.

FOREIGN LANGUAGE REQUIREMENT

Amherst College expects each graduate to be proficient in the use of a language other than his native tongue. The College's standard of proficiency consists of satisfactory completion of a language course at a level designated by each foreign language department or scores of 600 or better in both the Achievement and Listening Comprehension Tests of the College Entrance Examination Board.

A student who has not met the standard of proficiency upon entrance will take at least one course of a foreign language at Amherst, normally during the first semester of his freshman year. The language selected will usually be a continuation of one studied in secondary school.

Any student who, after a one-semester course in a foreign language at the college level, has not met the Amherst standard of proficiency and who chooses not to continue the study of a foreign language will discuss his

plans with the Language Advisory Board. The student and the Board will examine the possible consequences for the student's own educational plans of a decision to continue further study of the language or of a decision to drop the language at that point. The decision whether to continue or not will then be made by the student himself.

THE MAJOR REQUIREMENT

A major normally consists of eight courses pursued under the direction of a department or special group. A major may begin in either the freshman or sophomore year and is normally declared by the beginning of the junior year. Students may change their major at any time provided that they will be able to complete the new program before graduation.

The major program can be devised in accordance with either of two plans:

DEPARTMENTAL MAJORS

A student may complete the eight-course requirement within one department. He must complete at least six courses within one department, however, in which case he may take the remaining two courses in related fields approved by the department.

INTERDEPARTMENTAL MAJORS

Students with special needs who desire to construct an interdepartmental major will submit a proposed program, preferably with the endorsement of one or more professors from each of the departments concerned, to the Committee on Interdisciplinary and Special Study. Such a program is normally composed of courses available in the existing departments and is not to be confused with the Independent Study program. If the CISS approves the proposal, it will appoint an ad hoc committee which will have all further responsibility for approving modifications in this program, selecting an advisor, administering an appropriate comprehensive examination, and making recommendations for graduation with honors.

A part of the major requirement in every department is an evaluation of the student's comprehension in his major field of study. This evaluation may be based on a special written examination or upon any other performance deemed appropriate by each department. The mode of the evaluation need not be the same for all the majors within a department, and, indeed, may be designed individually to test the skills each student has developed.

The evaluation should be completed by the seventh week of the second semester of the senior year. Any student whose comprehension is judged to be inadequate by his department will have two opportunities for re-evalua-

tion: one not later than the last day of classes of the second semester of the senior year, and the other during the next college year.

DEGREE WITH HONORS

The degree Bachelor of Arts with honors is awarded at graduation to students whose academic records give evidence of particular merit. It may be awarded *cum laude, magna cum laude,* or *summa cum laude,* according to the level of achievement of the candidates. All degrees with honors are noted on the diploma and the commencement program, and are announced in the annual catalog.

The award of honors is made by the Faculty of the College. In making such awards the Faculty will take into account the following factors: (1) Candidates must have a minimum college average of 9 (B—) to be eligible to be considered for the degree *cum laude,* of 11 (B+) for the degree *magna cum laude,* and of 12 (A—) for the degree *summa cum laude.* (2) Candidates must receive the recommendations for the degree *cum laude, magna cum laude,* or *summa cum laude* from the department in which they have done their major work. Each department will define the conditions upon which it will be its practice to make recommendations to the Faculty. (3) Candidates for the degree *magna cum laude* or *summa cum laude* will have their entire records reviewed by the Dean of the Faculty and the Committee of Six, who will transmit their recommendations to the Faculty. Only students of marked distinction in both general work and in the field of honor studies will be recommended for the *summa cum laude* degree.

In exceptional cases, upon recommendation of the department in which the candidate has done his major work, the Committee of Six may recommend to the Faculty that a student be awarded a degree of honors for which he does not have the required average.

The minimum average required for a student to be accepted by a department as a candidate for honors is determined by the department concerned.

Students in the Independent Study Program may become candidates for the degree with honors. Recommendations for such students will be made by the student's tutor together with those members of his committee who have joined in assigning him his comprehensive grade in the program.

INDEPENDENT STUDY

A limited number of students who elect to do so may participate in an independent study program, usually in the junior or senior years. Participants are chosen by the four-member Faculty Committee on Independent Study, which includes the Dean of the Faculty, after nomination for the program by a member of the Faculty. Independent Scholars are free to plan a per-

sonal program of study under the direction of a tutor, chosen by the student with the advice and consent of the Committee. The tutor provides the guidance and counsel necessary to help the student attain the educational objectives he has set for himself. The tutor and one or more other members of the Faculty familiar with the student's work will ultimately assign a comprehensive grade and provide a detailed, written evaluation of the student's performance which will become part of his formal record at Amherst College. Grades in such regular courses as the student may elect will be taken into account in assigning the comprehensive grade, and the student is eligible for a degree with honors, as well as all other awards and distinctions.

FIELD STUDY

Beginning with the academic year 1969–1970, the Faculty instituted a program of field study under which a student may pursue a course of study away from Amherst for either one or two semesters. A student is admitted to the program by the Faculty Committee on Field Study after approval of his written proposal, and is assigned a Field Study Advisor chosen from the Faculty.

Upon being admitted to Field Study, a student becomes a candidate for the degree of Bachelor of Arts with Field Study, which is normally attained in four and one half or five years. During his first semester in residence at Amherst after his period of Field Study, a student must take a Special Topics course, normally with his Field Study Advisor, in which he draws on both his experience of Field Study and further investigation relating to it. A student may also pursue a related Special Topics course in the semester before he enters his program of Field Study.

A student pursuing a two-semester plan of Field Study will be allowed to continue after the first semester only upon providing evidence to the Faculty Committee on Field Study that he is satisfactorily carrying out his program. No student shall begin his study in the field later than the first semester of his senior year.

A student pursuing Field Study shall maintain himself financially in the field, and during the period shall pay a Field Study fee to the College in lieu of tuition.

The transcript of a student who has undertaken Field Study shall include a short description and appraisal by his Field Advisor of the student's project and of the related Special Topics course.

ADVANCED PLACEMENT & EARLY GRADUATION

In cases where a student's Advanced Placement curriculum, scores, and academic record indicate that an Amherst course will be largely repetitive,

a student may apply for an advanced course. Approval for the advanced course is granted after a conference with the professor who will teach the higher-level offering. Amherst credit is not granted for Advanced Placement work, but it is possible for a student to graduate after three years and the completion of 24 Amherst courses (see footnote, page 3).

Questions about Advanced Placement should be directed to the Dean of Admission. For further information, candidates should consult the Advanced Placement booklet in their secondary school guidance office.

FIVE COLLEGE COURSES

Amherst, Hampshire, Mount Holyoke and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in selected areas for the purpose of extending and enriching their collective educational resources. Certain specialized courses not ordinarily available at the undergraduate level are operated jointly and open to all. In addition, a student in good standing at any of the five institutions may take a course, without cost to the student, at any of the other four if the course is significantly different from any offered on his own campus and he has the necessary qualifications.

The course must have a bearing on the educational plan arranged by the student and his adviser. Approvals of the student's adviser and the Academic Dean of the College (Provost at the University) at the home institution are required. Permission of the instructor is required for students from other campuses if permission is required for students of the institution at which the course is offered.

Students should apply for interchange courses at least six weeks prior to the beginning of the semester since they may find some courses already filled after that time. Free bus transportation among the five institutions is available for interchange students.

Students interested in such courses will find current catalogs of the other institutions at the Loan Desk of the Library and at the Registrar's Office. Application blanks may be obtained from the Registrar's Office.

COOPERATIVE DOCTOR OF PHILOSOPHY

A COOPERATIVE Doctor of Philosophy program has been established by Amherst, Hampshire, Mount Holyoke, and Smith Colleges and the University of Massachusetts. The degree is awarded by the University of Massachusetts but some and perhaps much—and in a few exceptional cases even all—of the work leading to the degree might be done in one or more of the other institutions.

When a student has been awarded a degree under this program, the fact that it is a cooperative doctoral degree involving Amherst, Hampshire, Mount Holyoke, and Smith Colleges and the University of Massachusetts will be indicated on the diploma, the permanent record, and all transcripts, as well as on the commencement program.

The requirements for the degree are identical to those for the Ph.D. degree at the University of Massachusetts except for the statement relating to "residence." For the cooperative Ph.D. degree "residence" is defined as the institution where the dissertation is being done.

Students interested in this program should write to the Dean of the Graduate School at the University of Massachusetts. However, students who wish to work under the direction of a member of the Amherst Faculty must have their proposal approved by the Dean of the Faculty of Amherst College and by the Amherst Faculty Committee of Six.

Faculty Statement on Intellectual Responsibility

A Statement of Intellectual Responsibility
Among Students at Amherst College:

The following Articles are an institutional expression of the basic fact that every man's education is the product of his own intellectual efforts. Amherst cannot educate a man who will not educate himself. Amherst sees no value in making its facilities available to a man who avoids the responsibility and opportunity for his own education. Every man who enrolls and remains at Amherst, therefore, understands that to submit work which is not his own violates the purpose of the College and of his presence there. No intellectual community can maintain its integrity or be faithful to its members if violations of its central purpose are for any reason tolerated.

This principle of intellectual responsibility applies to all work done by students.

ARTICLE I

This statement will be perpetuated in the Amherst College Bulletin, Student Handbook, and other publications deemed appropriate. The following affirmation will be printed on the course enrollment cards for every course; it must be signed before enrollment can be considered:

> "I have read, understand, and accept the Statement of Intellectual Responsibility Among Students at Amherst College, and agree with this principle as it relates to this course.
>
> .....(signed)"

ARTICLE II

Section 1. Examinations will not be proctored; orderly and honorable conduct of examinations will be the individual and collective responsibility of the students concerned, in accordance with the Statement above.

Section 2. The instructor may be present at examinations at appropriate times to answer any questions that arise.

ARTICLE III

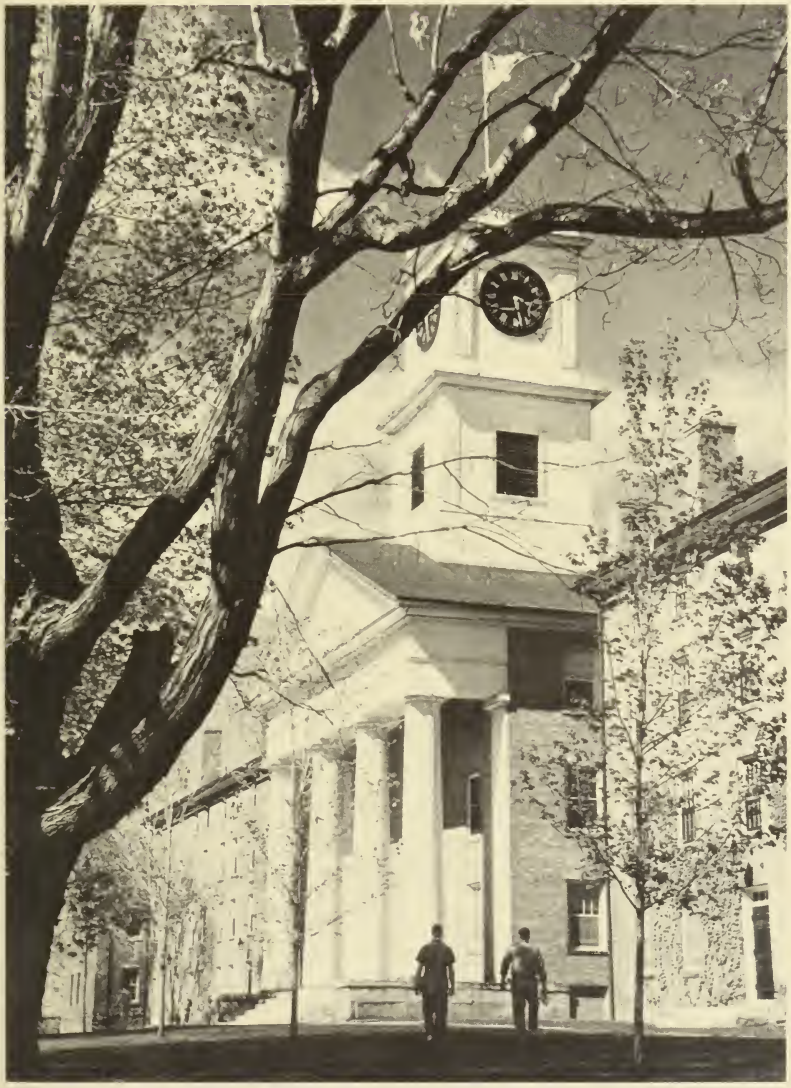
Instances of purported or ascertained violation of the Statement of Intellectual Responsibility will be dealt with by the Judicial Board in accordance with its procedures.

ARTICLE IV

The Judicial Board shall make provision for explaining the Statement of Intellectual Responsibility to incoming freshmen and to new members of the Faculty, and for publicizing and interpreting the Statement to the student body during the year. The Judicial Board will consider any problems of maintaining intellectual responsibility which are brought before them by the students. They will make any recommendations which they deem advisable for action by the Faculty and Administration. At some time each year the Board shall also be responsible for a serious review of the effectiveness of these procedures in promoting the central purpose of the College.

III

COURSES OF INSTRUCTION



Johnson Chapel

Courses of Instruction

COURSES are open to all students, subject only to the restrictions specified in the individual descriptions. Courses listed as elective for a particular class may be elected by members of that class and higher classes. In general all courses numbered 1 to 9 are introductory language courses. Introductory courses in other areas are numbered 11 to 20, senior honors courses, usually open only to candidates for the degree with honors, are numbered 77 and 78, and special topics courses are numbered 97 and 98. All courses, unless otherwise marked, are full courses. The course numbers of double courses and half courses are preceded by D or H. All odd-numbered courses are offered in the first semester, unless followed by the designation s, and all even-numbered courses are offered in the second semester unless followed by the designation f.

SPECIAL TOPICS COURSES

Departments may offer a semester course known as Special Topics in which a student or a group of students study or read widely in a field of special interest. It is understood that this course will not duplicate any other course regularly offered in the curriculum and that the student will work in this course as independently as the director thinks possible.

Before the time of registration the student should consult the teacher in whose field of competence his subject comes and who will direct his work; they will decide the title to be reported, the nature of the examination or term paper, and will discuss the preparation of a bibliography and a plan of coherent study. All students must obtain final approval of the Department before registration. Two Special Topics courses may not be taken concurrently.

AMERICAN STUDIES

Professors Greene (Chairman), Guttmann, Hawkins, Marx, Rozwenc, and Ward; Associate Professors Dizard* and Levin*; Assistant Professors Buff, O'Connell, E. Ryerson, and Wills; Dean Behnke.

American Studies is a program which searches for an understanding of the relations among institutions, ideas, and aesthetic forms within the American experience. By combining work in a number of the traditional scholarly

*On leave 1972–73.

disciplines, it aims to place the student in a position where he can see and can make some statements about these relations.

Major Program. A major in American Studies is expected to develop a program of courses and independent reading which will enable him to understand:

1. the main forces which have shaped American life throughout American history, including changes in political and social institutions, the forms of economic organization, the competing myths and ideologies, and responses to world politics which have developed in the American experience;
2. the classic writings and other creative efforts in the American intellectual tradition, including significant works in literature, art, philosophy, and political and social theory.

A major in American Studies will be required to take both terms of the introductory course (American Studies 11, 12) and to work out for himself a broad program of study. Such a program of study must include a primary emphasis on history and literature (at least two courses in each field), and a competent knowledge of at least one other field (at least two courses), viz., economics, political science, anthropology and sociology, philosophy, religion, art, or music.

Although enrollment in American Studies 11, 12 is not restricted, no more than thirty students from each class will be admitted to the major program in American Studies. To be eligible for admission to the major program, a student must take American Studies 11, 12, before the end of the sophomore year. All students who are accepted in the major program must take the Junior Seminar in American Civilization and the two Senior Tutorial courses listed in the departmental offerings. In conjunction with the senior tutorial courses, each student in a major program will write an original essay that develops a form of interdisciplinary inquiry which has been approved by the Department.

Honors Program. All students majoring in American Studies are required to take the five interdisciplinary courses (11, 12, 68, 77, and 78) offered by the Department. Recommendations for honors will be made at the end of the senior year after the completion of the senior essay.

11, 12. **An Introduction to American Civilization.** This course will explore the significant interrelations among politics, economic organization, literature, religion, art, etc. in selected moments of American history. The center of attention in the course will be the investigation of large cultural configurations in the American experience rather than a comprehensive historical treatment. Relevant problems of meaning and method in this kind of interdisciplinary inquiry will also be considered.

In the first semester 1972–73, the topic will be Alexis de Tocqueville and the Problem of Consensus in American Democratic Culture, a study of conflict and consensus within the political, religious, and social institutions of

Jacksonian America, with particular emphasis on the problems of slavery and abolitionism. By examining the values that are reflected in the institutions and in the literature of the period, the course seeks to answer the question: Were there two cultures, one Northern and one Southern, or only one culture in antebellum America?

In the second semester, the topic will be the crisis of legitimacy suffered by a variety of American institutions in the period following the Second World War. Changes in political authority, the "New Military," middle-class marriage, and the rise of Woman's Liberation are among sub-topics to be considered.

Elective for Freshmen. First and second semesters. The staff.

The History of American Society. See History 55.
First semester. Professor Rozwenc.

The History of American Society. See History 56.
Second semester. Professor Rozwenc.

Seminar in Southern History. See History 57s.
Limited to fifteen students. Second semester. Professor Hawkins.

The Progressive Generation. See History 58.
Limited to fifteen students. Second semester. Professor Greene.

America in the Sixties. See History 59.
Admission by consent of the instructor. First semester. Professor Rozwenc.

Radicals and Reformers in the New Deal Era. See History 60.
Limited to fifteen students. Second semester. Omitted 1972–73. Professor Rozwenc.

Community and Individualism in Early America. See History 61.
First semester. Professor Greene.

American Diplomatic History. See History 62.
Second semester. Omitted 1972–73. Professor Levin.

Conference Course in American Intellectual History. See History 63.
Open to Juniors and Seniors with permission of instructor. First semester. Professor Commager.

Seminar in Educational History. See History 66.
Limited to fifteen students. Second semester. Omitted 1972–73. Professor Hawkins.

Race in American History. See History 67.
Limited to twenty-five students. To alternate with History 64. First semester. Omitted 1972–73. Professor Hawkins.

Readings in American Literature. See English 60f.
Elective for Juniors. First semester. Omitted 1972–73. Professor Marx.

American Puritanism. See English 61s.
Elective for Sophomores. Second semester. Professor Peterson.

American Renaissance. See English 62f.
Elective for Sophomores. First semester. Professor Guttmann.

Realism and Naturalism in American Literature. See English 63s.
Elective for Juniors. Limited to sixty students. Second semester. Omitted 1972–73. Professors Marx and Peterson.

Visionary Writers in America. See English 64f.
Elective for Juniors. Limited to sixty students. First semester. Omitted 1972–73. Professors Marx and Peterson.

American Literature. Cosmopolitans and Provincials. See English 65s.
Elective for Sophomores. Second semester. Professor Guttmann.

Race and Ethnicity in American Literature. See English 66f.
Elective for Sophomores. First semester. Omitted 1972–73. Professor Guttmann.

American Writers and Their Environments. See English 67.
Requisite: Enrollment in the Kenan Colloquium (See p. 187.). Elective for Sophomores. Limited to fifty students. First semester. Professor Marx.

American Writers and Their Environments. A continuation of English 67. See English 68.
Requisite: English 67 and enrollment in the Kenan Colloquium (See p. 187.). Elective for Sophomores. Limited to fifty students. Second semester. Professor Marx.

Human Resources. See Economics 21s.
Requisite: Economics 11. Second semester. Professor Sears.

The American Economy. See Economics 24.
Requisite: Economics 11. Second semester. Professor Nelson.

American Economic History. See Economics 28.
Requisite: Economics 11. Second semester. Professor Aitken.

American Art. See Fine Arts 38f.
Elective for Sophomores. First semester. Omitted 1972–73.

Topics in Philosophy. See Philosophy 21.
Requisite: Permission of instructor. (Suggested: one philosophy course from Group I passed with at least a C). Elective for Freshmen. First semester. Professor Sicha.

American Government. See Political Science 21.
First semester. Professor Ziegler.

Political Parties. See Political Science 31.
Requisite: Consent of the instructor. First semester. Professor Carroll.

American Constitutional Development. See Political Science 41.
First Semester. Professor Latham.

American Political Thought. See Political Science 48.
Second semester. Omitted 1972–73. Professor Kateb.

Religion in America. See Religion 34.
Requisite: Religion 11 or consent of the instructor. Elective for Juniors. Second semester. Omitted 1972–73.

American Social Structure. See Sociology 12.
Elective for Freshmen. Second semester. Professor N. Birnbaum.

68. Seminar in American Civilization. An interdisciplinary investigation of selected aspects of American civilization.
Required of all junior majors in American Studies. One two-hour seminar weekly. Second semester. Professor Greene.

77. Senior Tutorial Course. The preparation of a senior essay that develops a form of interdisciplinary inquiry in American civilization which has been approved by the Department.
Required of all senior majors. First semester.

78. Senior Tutorial Course. The preparation of a senior essay that develops a form of interdisciplinary inquiry in American civilization which has been approved by the Department.
Required of all senior majors. Second semester.

97. Special Topics. Independent Reading Course.
First semester.

98. Special Topics. Independent Reading Course.
Second semester.

ANTHROPOLOGY AND SOCIOLOGY

Professors N. Birnbaum and Pitkin (Chairman); Associate Professor Dizard*; Assistant Professors Babb, Buff, and Errington.

*On leave 1972–73.

The Anthropology and Sociology program is designed to complement the work of the other disciplines in the Social Science division by bringing to bear the specific resources of each discipline upon the understanding of man and woman in society and culture. Emphasis is placed upon traditional as well as upon modern societies and upon people in the past as well as in the present.

Major Program: Students majoring in the department will be able to emphasize either an anthropology or sociology curriculum. In the first instance students will normally take (although not necessarily in this order) Sociology 11 or 12, Anthropology 11, 12 and 71, and four additional courses approved by the department. Candidates for degrees with honors will include Anthropology 77, 78.

Those who pursue a sociology curriculum will normally take Anthropology 11 or 12, Sociology 11, 12 and 71, and four additional courses approved by the department. Candidates for degrees with honors will include, as seniors, Sociology 77, 78.

Interdepartmental majors in combination with a number of other fields may be arranged for honors candidates.

Anthropology

11. The Evolution of Culture. An analysis of culture in evolutionary perspective, regarding it as the distinctive adaptive mode of humanity.

Elective for Freshmen. First semester. Professor Pitkin.

12. Social Anthropology. An examination of theory and method in social anthropology as applied in the analysis of specific societies. The course will focus on case studies of four societies chosen from four different ethnographic areas. Areas to be represented in 1972–73 will be Australia, Amazonia, Africa and Ceylon.

Elective for Freshmen. Second semester. Professor Babb.

Human Suffering and the Quest for Meaning. See Colloquia, p. 185.

Second semester. Professors Babb, Lebeck, and Pemberton.

21. Indian Civilization. A general survey of Indian civilization together with comparative materials from other areas of South and Southeast Asia.

Elective for Sophomores. First semester. Professor Babb.

23. History of Anthropological Thought. An examination of the development of the anthropological tradition from the late nineteenth century to the present. Readings will be drawn from the works of key figures in the development of American, British and French anthropology.

Elective for Sophomores. First semester. Professor Babb.

Religion, Culture and Society in Japanese History. See Religion 23.
First semester. Professor Lee.

31. Anthropological Approaches to the Study of Religion. An examination of anthropological theory and method relating to the analysis of systems of religious belief and practice.
Elective for Sophomores. First semester. Professor Errington.

34. Peoples of Africa. A general survey of Subsaharan ethnography, including a final section on modern political developments.
Elective for Sophomores. Second semester. Omitted 1972–73. Professor Babb.

36. Culture and Personality. An examination of theoretical and methodological issues concerning the relationship between personality and culture. One two-hour seminar per week.
Elective for Seniors by consent of the instructor. Second semester. Professor Pitkin.

40. Anthropological Theory: Symbolism. An examination of how symbols both reflect and form a culture's experience of its world. Authors will include Freud, Jung, Levi-Strauss, Mary Douglas, Victor Turner and Clifford Geertz. One two-hour seminar each week.
Elective for Juniors by consent of the instructor. Second semester. Professor Errington.

41. Non-Western Views of Person, Time and Reality. An analysis of various views of time, person and reality as presented in non-Western autobiographies, theories of madness, and millenarian movements. One two-hour seminar each week.
Elective for Juniors by consent of the instructor. First semester. Professor Errington.

Colloquium in South Asian Literature. See Colloquia, p. 187.
Requisite: Anthropology 21 or its equivalent. Elective for Juniors with the consent of the instructors. Limited to fifteen students. Second semester. Omitted 1972–73. Professors Babb and Peppard.

71s. Senior Seminar. A consideration of current issues in anthropological and sociological theory. Required of all seniors in anthropology and sociology. Others by consent of the instructor only.
Second semester. Professors Buff and Errington.

77, 78. Honors Course.
First and second semesters. The Department.

97, H97. Special Topics. Independent Reading Courses. Full or half course.
First semester. The Department.

98, H98. Special Topics. Independent Reading Courses. Full or half course. Second semester. The Department.

Sociology

11. Introduction to Sociology: Community and Society. The course will pursue a central theme in sociology: the tension between communal and societal modes of association. The historical progression from simple to complex societies will be discussed and the persistence and possible resurgence of communal relationships within modern society will be explored. An examination of the writings of Marx, Durkheim, Weber, and G. H. Mead. Urbanism as a way of life. The extent and variety of community in the United States.

First semester. Professor Buff.

12. American Social Structure. A consideration of some of the present conflicts of American society. The themes to be treated are: capitalism as a social system, the domestic incidence of imperialism, the problem of a national culture, changes in the labor force, the structure of the technobureaucratic elite, possibilities of a new politics.

Elective for Freshmen. Second semester. Professor Birnbaum.

20f. The Sociology of Intellectual Life. An examination of the relationships of knowledge to power. Some of the classical texts on the problem will be read, and a number of historical examples considered; the role of the *Philosophes* in European society, the relationship of the intellectuals to the socialist movement, the emergence of technocratic elites. Some attention will be given to the present problems of the university.

Elective for Freshmen. First semester. Professor Birnbaum.

21. Race and Ethnic Relations. A detailed analysis of race and ethnic relations in American society with focus on the experience of several major ethnic groups in addition to a comprehensive examination of the Negro in America. Issues to be dealt with will include racism, assimilation, ethnic identity, and black culture.

Elective for Juniors and Seniors. First semester. Omitted 1972–73. Professor Dizard.

An Inquiry into the Nature of Deviancy. See Inquiry, p. 191.

First semester. Professors Buff, Coplin, Pitkin, and Schloming.

23. Field Methods in Sociology. The place of field work among other research methods; aims and special contributions. The strategy and problems of field work—especially participant observation: establishing a role, the use of informants and respondents, maintaining rapport, interviewing, re-

cording field notes, concept formation, drawing inferences and corroborating them, working in organizations and foreign cultures, developing theory and ethical issues. The course will also briefly explore similarities and differences between the craft of the sociologist and that of the film maker or novelist in dealing with the raw data of human experience and action. Students will be expected to gain sustained field work experience.

Consent of the instructor required. First semester. Omitted 1972–73. Professor Buff.

Sociology of Religion. See Religion 24.

Requisite: Sociology 11 or Religion 11 or consent of the instructor. Second semester. Professor Lee.

26. The Working Class in American Society. Major facets in the life of the American worker: the family, the worlds of youth and education, work and leisure, sex, marriage and the family, physical and mental health. The formation of working class values, perspectives and ideologies. The relationship of the working class to other classes and institutions. Analysis of embourgeoisement, authoritarianism, the direction of working class politics and culture, and the effects of recent social changes on the working class (the Indo-China War, the civil rights and youth movements, and the recession.) Some historical and comparative readings.

Second semester. Professor Buff.

30f. Social Change. An examination of classical and contemporary treatments of change. The sources of change and the phenomenon of social conflict. Orderly and revolutionary change. The role of the intellectual and ideology. The problems of analyzing modernization and economic development.

Requisite: Anthropology 11, or Sociology 11 or 12. Elective for Juniors. First semester. Omitted 1972–73. Professor Dizard.

31s. Karl Marx. An examination of the sources and development of the thought of Karl Marx. Reading in the original texts. Current interpretations of Marx. Marxism and the contemporary social sciences.

Second semester. Professor Birnbaum.

41. The Sociology of Culture. An inquiry into the viability of high culture, understood as constituted by the philosophical assumptions, thought structures and aesthetic sensibilities of the western intellectual elite since the medieval period. High culture will be compared with traditional culture, popular culture, mass culture. The social contexts of cultural production will be examined, and the problems of a possible democratization of high culture considered. The reading will include works by Matthew Arnold, Walter Benjamin, Pierre Francastel, Sigmund Freud, André Malraux, Jean-Jacques Rousseau, Susan Sontag, Lionel Trilling, Raymond Williams.

Permission of the instructor required. Limited to twenty students. First semester. Professor Birnbaum.

71s. Senior Seminar. A consideration of current issues in anthropological and sociological theory. Required of all seniors in anthropology and sociology. Others by consent of the instructor only.

Second semester. Professors Buff and Errington.

77, 78 Honors Course. First and second semesters. The Department.

97, H97, 98, H98. Independent reading courses. Full or half course. First and second semesters. The Department.

Asian Studies. See page 184.

ASTRONOMY

Professors Harrison, Huguenin, Irvine (Chairman), Seitter, and Strong; Associate Professor Arny; Assistant Professors Dennis, Dent, C. Gordon, K. Gordon, Greenstein, Manchester, Tademaru, Taylor, and Van Blerkom.

A joint Astronomy Department provides instruction at Amherst, Hampshire, Mount Holyoke and Smith Colleges and the University of Massachusetts. Introductory courses are taught separately at each of the five institutions; advanced courses are taught jointly. ASTFC indicates courses offered by the Five-College Astronomy Department. These courses are listed in the catalogs of all the institutions.

Two alternative programs are available leading to a degree in astronomy. The honors program is designed to meet the needs of the student who wishes to prepare for graduate work in astronomy or astrophysics, or who wishes a combined honors program with mathematics or physics. The *rite* major is available to the student who wishes to study astronomy largely for its cultural values or as the basis of a broad science background which might lead to a career in teaching, scientific journalism, or related fields.

The facilities of all five institutions are available to departmental majors. (See description under Astronomy 77, 78.) Should the needs of a thesis project so dictate, the Department may arrange to obtain special materials from other observatories.

Major Program: The minimum requirements for the *rite* major are Astronomy 22, 73, 74, and two courses from 37, 38, 43 and 44; Mathematics 11, 12 and 21; Physics 13, 14, 23, and at least one additional physics course.

A student who considers majoring in astronomy should consult with the Department as early as possible in his college career. Honors students should complete Mathematics 12 and Physics 13 before the start of the sophomore year.

An appropriate program for the student who achieves advanced placement in physics or astronomy will be devised on an individual basis, in consultation with the Department.

Honors Program. Minimum Requirements: Astronomy 22, 37 or 38, 43, 44, 77, and 78. Mathematics 11, 12 and 21; Physics 13, 14, 23, 26, 27, 36 and 58.

In exceptional cases Astronomy 11 may be substituted for Astronomy 22 in either the *rite* or honors program.

11. Introductory Astronomy. A course designed primarily for students not majoring in the physical sciences. The properties of the astronomical universe and the methods by which astronomers investigate it are discussed. The course describes the nature and properties of stars, our Galaxy, external galaxies, cosmology, the origin and character of the solar system. Three one-hour lectures per week.

Elective for Freshmen. First semester. Professor Greenstein.

Intelligent Life in the Universe. See Colloquia, p. 185.

Requisite: Permission of the instructors. Enrollment limited. Second semester. Professors Greenstein and Zimmerman.

20. Cosmology. The course will examine the origin, evolution, and structure of the universe. To be given at Mount Holyoke College.

Requisite: One year of calculus and one year of some science; no astronomy prerequisite. Second semester. Professor Dennis.

22f. Introduction to Astronomy and Astrophysics. For astronomy majors or others interested in a quantitative introductory course. A description of our present knowledge of the universe and the means by which this knowledge has been obtained. The course considers the properties of the solar system, individual and multiple stars, interstellar matter, our galactic system and external galaxies. Two ninety-minute lectures and one two-hour laboratory per week. Same course as ASTFC 22.

Requisite: Physics 13 and 14. (Physics 14 may be taken concurrently.) Not open to students who have completed Astronomy 11. Elective for Sophomores. First semester. Professor Manchester.

22. Introduction to Astronomy and Astrophysics. Same description as Astronomy 22f. Second semester.

31. Topics of Current Astronomical Research. A discussion of selected topics from current astronomical research, intended primarily for non-science

majors. Topics may include the aims and results of space research and exploration, recent developments in stellar evolution, cosmology, and current research in radio astronomy. No mathematical preparation beyond algebra and elementary trigonometry is required. Two ninety-minute lectures per week. Same course as ASTFC 31.

Requisite: Astronomy 11 or 22. Elective for Sophomores. First semester. Professor Greenstein.

34. Development of Astronomy. The progress of astronomy is traced from prehistoric petroglyphs to the space age. Emphasis is placed upon the development of important ideas in the field and upon the relation of astronomy to other cultural trends. Supplemented by occasional use of the planetarium and the departmental telescopes. Two ninety-minute lectures per week. Same course as ASTFC 34.

Requisite: Astronomy 11 or 22. Elective for Freshmen. Second semester. Professors K. Gordon and Seitter.

37. Astronomical Observation. An introduction to the techniques of gathering and analyzing astronomical data. Subjects to be covered depend somewhat on individual interests: photography, calibration of photographs; photometry; spectroscopy and classification of spectra; determination of stellar temperatures, masses and radii; introduction to telescope design and use: the astronomical distance scale. Two ninety-minute lectures and one two-hour laboratory per week. Same course as ASTF 37.

Requisite: Astronomy 11 or 22 and Physics 14. Elective for Sophomores. First semester. Professor Strong.

38. Techniques of Modern Astronomy. An introduction to modern methods of astronomical observation and data reduction. Specific techniques of optical astronomy, radio astronomy, and space astronomy will be discussed and analyzed. Laboratory experiments and field observations will also be performed by students during the semester. Same course as ASTFC 38.

Requisite: Physics 14. Elective for Sophomores. Second semester. Professor Huguenin.

43. Astrophysics I. Basic topics in astrophysics. Equilibrium configurations and the physical state of stellar interiors. Polytrope models. Interaction of radiation and matter, and radiative transfer. Radiative and convective equilibrium. Study of opacity. Two ninety-minute lectures per week. Same course as ASTFC 43.

Requisite: Physics 27 or permission of instructor. Elective for Juniors. First semester. Professor Van Blerkom.

44. Astrophysics II. Continuation of basic topics in astrophysics. Nuclear energy sources. Stellar atmospheres and limb darkening. Electron degenerate configurations. Star formation. Introduction to simple model building.

Stellar evolution. Elementary plasma physics. Two ninety-minute lectures per week. Same course as ASTFC 44.

Requisite: Astronomy 43. Elective for Juniors. Second semester. Professor Van Blerkom.

73, 74. Reading Course. Required of *rite* majors. Students electing this course will be required to do extensive reading in the areas of astronomy and space science. Two term papers will be prepared during the year on topics acceptable to the Department.

Elective for Seniors. First and second semesters. The Department.

77, 78. Senior Honors. Opportunities for theoretical and observational work on the frontiers of science are available in cosmology, cosmogony, radio astronomy, planetary atmospheres, relativistic astrophysics, laboratory astrophysics, gravitational theory, infrared balloon astronomy, stellar astrophysics, spectroscopy, and exobiology. Facilities include the Five College Radio Astronomy Observatory, the Laboratory for Infrared Astrophysics, balloon astronomy equipment (16-inch telescope, cryogenic detectors), and a modern 16-inch Cassegrain reflector. An honors candidate must submit an acceptable thesis and pass an oral examination. The oral examination will consider the subject matter of the thesis and other areas of astronomy specifically discussed in astronomy courses.

Elective for Seniors. Required of honors students. First and second semesters. The Department.

BIOCHEMISTRY

30. Biochemistry. A study of the structure and function of biologically important molecules and their role(s) in life processes. Four classroom hours and four hours of laboratory work per week. Offered jointly by the Departments of Biology and Chemistry.

Requisite: One semester of organic chemistry and one semester of biology. The biology requirement may be waived for chemistry majors. Second semester. Professors Godchaux and Waggoner.

BIOLOGY

Professors Brower, Hexter, Leadbetter, and Yost (Chairman); Associate Professor Zimmerman; Assistant Professors Fisher, Godchaux, and Karfunkel; Dr. Ives.

Major Program. The major in biology consists of at least six courses in biology, of which four must be laboratory courses. In addition, one semester each of mathematics and physics, and chemistry through Chemistry 43 are

required. Honors candidates must elect, in addition to the extradepartmental requirements, eight courses in biology, four of which must be laboratory courses and three of which must be Biology 77–78. Specific requirements may be modified with the approval of the department. Each student will be assigned two advisers and will construct his own major program in consultation with them. An attempt should be made to insure a broad perspective in biology. Courses having numbers in the teens will not count toward the major without special approval by the department. Students intending to major in biology should take the necessary background courses in mathematics, physics, and chemistry as early as possible.

All majors must take a comprehensive examination during the senior year. The examination may be oral, written, or a combination of both, as determined by the department. It will center on those areas of biology included in the student's major program.

Honors Program. Honors work in biology is intended to offer an introduction to the purposes and methods of biological research. It is an excellent preparation for those students who wish to become professional scientists or who wish to acquire first-hand knowledge of the methods of modern science.

The work for Honors consists of two main activities: (a) an original investigation under the direction of some member of the staff, and (b) participation in a seminar in which the candidate reports on recent literature dealing with current scientific investigations.

Courses for Non-science Students. The courses numbered in the teens are designed for students who are not majoring in the sciences and for those not majoring in biology in particular. These courses are intended to introduce students to the subject matter of the biological sciences, with emphasis on scientific methodology and on man's place in nature. Although these courses may be elected by any student, they do not normally satisfy the major in biology nor are they recommended as a means of satisfying the admissions requirements of medical schools.

Colloquium in Modern Experimental Science. See Colloquia, p. 184.

Requisite: Permission of the course chairman. Elective for Juniors and Seniors who have completed at least three semester courses toward a major in biology, chemistry, geology or physics. Limited to fifteen students. Second semester. Professors Benson (Chairman), Brophy, Fisher, Godchaux, Hove, Kuntz, Tinker, Valberg, and Waggoner.

13. Evolution of Man and of Human Nature. Biological principles are illustrated by and used in the analysis of such questions as: how did man's structure, intelligence and behavior evolve; how do we disentangle the hereditary and environmental contributions to these traits; can our percep-

tions, behavior and intelligence now be understood in terms of the workings of a complex kind of machine, the brain; how do the answers to these questions bear on matters of ethics and our evolutionary future? Three hours of lecture and discussion per week.

Elective for Freshmen. First semester. Professor Zimmerman.

14. Human Ecology. Diverse observations on the human species will be integrated into the conceptual framework generated by modern ecosystem biology. The course will emphasize population dynamics and control; food resources, and energy production and consumption; economic and social aspects of development and conservation; and causes and effects of ecosystem perturbation. Three classroom hours and two hours of laboratory or seminar work per week.

Elective for Freshmen. Second semester. Professor Fisher.

15. The Biology of Disease. Consideration of a number of significant diseases. The intention is to start with a description of a condition, then to extend discussion of its etiology and effects as far toward the molecular level as knowledge permits. Discussion will then be extended in the other direction to consider the genetic and environmental aspects of the disease and its impact on society. Three hours of lecture and discussion per week.

Elective for Freshmen. First semester. Professor Godchaux.

16. Microbes and Man: Cheese and Disease. A study of the diversity of life styles and activities of microorganisms, their significant roles in nature (including their contribution to the well-being and disease states of man), their contributions to the elucidation of basic biological principles, and the interactions of science, scientists, and society. Three classroom hours and four hours of laboratory per week.

Elective for Freshmen. Second semester. Professor Leadbetter.

18. Human Genetics: Science and Society. The course will have two objectives: (1) to introduce the facts and techniques of the genetics of man including cytogenetics, inborn errors of metabolism, population genetics, mutation, and selection; (2) to use this information as the basis of a discussion of science and society including the ethics of genetic engineering, the responsibility of a scientist for his discoveries, and the relationship of science and scientists to social problems. One seminar meeting per week.

Elective for Freshmen. Second semester. Professor Hexter.

Intelligent Life in the Universe. See Colloquia, p. 185.

Requisite: Permission of the instructors. Enrollment limited. Second semester. Professors Greenstein and Zimmerman.

The Natural Science of the Human Organism. See Colloquia, p. 186.

Requisite: Satisfactory performance in a previous college-level natural

science course. Physics 13 and 14 are strongly recommended for an in-depth approach to the subject. Alternate qualifications such as a high-school physics, chemistry, or biology course should be discussed with the instructors. First semester. Professors Karfunkel and Valberg.

21. Genetics. A study of the basic facts of heredity, an analysis of cellular structure, and a consideration of the various hypotheses for the action of genes in the control of cellular and multi-cellular processes. Four classroom hours and four hours of laboratory work per week.

Requisite: concurrent registration in Chemistry 11 or equivalent. Elective for Sophomores. Freshmen may elect it with the consent of the instructor. First semester. Professors Hexter and Yost.

22. Developmental Biology. A study of the development of animals and plants, leading to the formulation of the principles of development, and including an introduction to experimental embryology and developmental physiology. Four classroom hours and four hours of laboratory per week.

Elective for Sophomores. Freshmen may elect the course with the consent of the instructor. Second semester. Professor Karfunkel.

23. Ecology. A study of the relationships of plants and animals (including man) to each other and to their total environment. General principles will be illustrated by lectures, selected films, computer simulations, laboratory, and field work, including an aerial reconnaissance flight. Three classroom hours and four hours of laboratory or field work per week.

Elective for Sophomores. Limited to thirty-six students. Freshmen may elect the course with the consent of the instructor. First semester. Professor Brower.

24. Diversity in Biological Systems. A modern natural history, the course will present a comparative survey of adaptive strategies in animals and plants throughout the world. Three classroom hours and four hours laboratory or field work per week.

Elective for Sophomores. Limited to thirty-six students. Second semester. Professor Brower.

Biochemistry. See Biochemistry 30.

Requisite: One semester of organic chemistry and one semester of biology. The biology requirement may be waived for chemistry majors. Second semester. Professors Godchaux and Waggoner.

31. Microbiology. A study of the ecology and physiology of microorganisms. Three classroom hours and four hours of laboratory work per week.

Elective for Sophomores. Freshmen may elect the course with the consent of the instructor. First semester. Professor Leadbetter.

32. Evolutionary Biology. A broad examination of functional and historical explanation in the biological sciences. The topics covered include: the history of evolutionary ideas and natural selection; the genetics of individuals and populations; analysis of rates, patterns, and direction of evolution as indicated by the fossil record; the origin of life and the evolution of genes, proteins and cellular particulates; biochemical and physiological adaptations; evolutionary aspects of behavior and development; and the origin of man. Four classroom hours and four hours of laboratory work per week.

Requisite: Biology 21. Elective for Juniors, or for Sophomores with the consent of the instructor. Second semester. Professor Zimmerman.

33. Aquatic Ecosystems. An integration of physical, chemical, and biological aspects of lakes and streams designed to engender a synthetic view of the dynamics of aquatic ecosystems. Emphasis will be placed on nutrient cycling, energy flow, systems interactions and disturbance effects. Three classroom hours and four hours of laboratory work per week.

Requisite: One semester of biology and permission of the instructor. Biology 23 is recommended. Elective for Juniors. Sophomores may elect the course with the consent of the instructor. First semester. Professor Fisher.

41. Advanced Developmental Biology. An analysis of current views of the development of plants and animals at the cellular and biochemical levels, with special attention to the genetic control of embryonic differentiation and to cellular interaction in morphogenesis. Three classroom hours and four hours laboratory per week.

Requisite: Biology 22. Elective for Juniors. Limited to twelve students. First semester. Professor Karfunkel.

42. Advanced Ecosystem Biology. An advanced treatment of ecosystem structure and function synthesized from traditional fields of plant and animal, terrestrial, freshwater, and marine ecology. Productivity, modeling, control mechanisms, and general system theory applications will be emphasized. Three classroom hours and four hours of field and laboratory work per week.

Requisite: Biology 33 or written consent of the instructor. Elective for Juniors. Offered every other year. Second semester. Professor Fisher.

51. Seminar: Topics in Comparative Biochemistry. Topics will vary from year to year but will be represented by the following: photosynthesis, biosynthesis of unusual compounds, cellular and colonial morphogenesis, regulatory mechanisms, the biology of viruses. One seminar meeting per week.

Requisite: Biology 30 or 31 or consent of the instructor. Elective for Juniors. Limited to fifteen students. First semester. Professor Leadbetter.

52. Seminar in Genetics. Topics will vary from year to year. This year the topic will be an examination of the problem of differential expression of gene activity in viral, microbial, and eukaryotic systems. Three classroom hours per week.

Requisite: Biology 21 and the consent of the instructor. Elective for Juniors. Limited to fifteen students. Second semester. Professors Hexler and Yost.

53. Seminar in Molecular Biology. A study of the relationship of structure to function at the subcellular level, with emphasis on molecular mechanism. Coverage will be flexible within the area of the molecular biology of eukaryotes. Past topics have included biosynthesis and its regulation, transport, and cellular function of the major classes of biological macromolecules. Three hours of classroom work per week, plus individual laboratory projects. The laboratory is optional for students enrolled in Biology 77.

Requisite: Biology 30. Elective for Juniors. First semester. Professor Godchaux.

77. Biology Honors. All honors students will take this course. The work consists of a seminar program and individual research projects.

Elective for Seniors. First semester. The Staff.

D78. Biology Honors. A continuation of Biology 77. A double course.

Elective for Seniors. Second semester. The Staff.

97, H97. Special Topics. Independent Reading or Research Course. Half or full course, as arranged.

First semester.

98, H98. Special Topics. Independent Reading or Research Course. Half or full course, as arranged.

Second semester.

BIOPHYSICS

Advisory Committee: Professors Kropf (Chairman), Romer, and Yost.

A student may receive the B.A. degree from Amherst with an interdepartmental major in biophysics. This program is designed for those few capable students who either wish the breadth of experience this program provides or who wish to prepare for graduate study. The major is organized around course offerings of the various science departments whose disciplines are fundamental to work in biophysics.

Major Program. Each student, in consultation with the Chairman of the advisory committee, will construct a program which will provide for a basic grounding in biology, chemistry and physics with supporting work in mathematics. The courses selected will introduce the student to each of the

sciences basic to biophysics, and in addition should enable him to reach a sufficient level of sophistication in the basic sciences so as to understand current problems in biophysics. A typical program would be:

Physics: 13, 14 and two more advanced courses.

Chemistry: 11, 12 and several more courses in physical, organic and biochemistry.

Mathematics: 11, 12 and some more advanced work in calculus and differential equations.

Biology: 21 and other work in molecular biology.

All biophysics majors are expected to attend the biophysics seminar, where topics of current interest in biophysics are discussed. It is important that a prospective biophysics major consult with the biophysics advisor early in his academic career in order to determine his course selections and prospective seminar and honors work.

Honors Program. Candidates for the degree with honors should elect Biophysics 77 and D78 in addition to the above program. An honors candidate may choose to do his senior honors work with any faculty member from the various science departments who is willing to direct relevant thesis work. The comprehensive examination will be administered by members of the advisory committee.

77, D78. Biophysics Honors. The work consists of a seminar dealing with problems of current interest in biophysics and the preparation of a thesis based upon an individual investigation under the direction of a faculty member.

Full course first semester. Double course second semester. The Committee.

97, H97, 98, H98. Special Topics. Independent Reading. Full or half course. First and second semesters.

BLACK STUDIES

Professor Davis (Chairman) and Visiting Distinguished Professor Matthews; Visiting Associate Professor Uya; Assistant Professor Cole and Visiting Assistant Professor Sanchez; and Visiting Lecturer Mbelle.

Black Studies is an interdisciplinary program drawn from offerings at the Five Colleges into a cohesive program that emphasizes the development, experience, and achievements of black peoples in the United States, the Caribbean, and Africa. It is designed to broaden the student's knowledge about the black experience while preparing him to meet requirements for careers in various fields of employment or graduate work in Black and/or African Studies. A list of other appropriate courses offered under Five College Afro-American Studies at Hampshire, Smith, and Mount Holyoke

Colleges and the University of Massachusetts is available in the Registrar's Office.

Major Program. A major in Black Studies consists of ten courses. Of these, Black Studies 11, which is to be taken in the freshman or sophomore year; Black Studies 50, to be taken no later than the sophomore year, and a Senior Seminar are required. The other seven courses may include Black Studies 62, one or two semester courses of research culminating in a major paper; other departmental offerings; and Black Studies courses offered in the other four institutions in the Valley. All Black Studies majors are advised to select a comparative theme (e.g. African, Afro-American, and Afro-Brazilian History, Literature, or Biography) and to pursue independent research in an area which relates to the substantive concerns of this theme.

A major may also expect, with the consent of the department chairman, to be able to spend one semester at another educational institution in the spring semester of his sophomore year or during his junior year.

Honors Program. The Black Studies honors program consists of two or three semester courses of independent research with a maximum total of three research courses spread throughout the junior and senior years, or a Junior year abroad (Africa, Caribbean, or Brazil) may be substituted for them. Any Black Studies major who wishes to be considered for the degree with honors, must present an honors thesis centering on a topic which he has worked on during his research courses or abroad.

11. An Introduction to Black Studies. An interdisciplinary investigation of the development, experience and achievements of black peoples in Africa and the Americas. This course will involve an analytical assessment of the growth of the phenomena of "African Personality" and of "Black Identity" in Africa and America, respectively. These will then be incorporated within or compared to the concept of "Negritude," the trans-Atlantic ethnic and cultural idea which, by accentuating their common heritage, binds Africans and people of African descent together.

First semester. Professor Davis.

16. Theories and Methods in Black Studies. A critical and analytical assessment of the major social and political thought of black intellectuals in the United States, Africa, and Brazil. Analysis of the historical and cultural context, with in-depth analysis of major black thinkers. Also an in-depth study of the expression of black consciousness—the Black is Beautiful theme—in music, art, drama, politics and business. The effect of black consciousness on the increasing currents of militancy and the struggle for dignity in America.

Second semester. Professors Davis and Matthews.

Note: Courses taught by Professor Cole are listed as Music 23, 24 and 52.

35. Black Literature I. A survey of Afro-American poetry, drama, fiction and non-fiction from slave days to the end of the Harlem Renaissance. The emphasis is two-fold: (a) the relationship of Afro-American literature to the continuing struggle for black political and economic power; (b) the pervasive influence of African oral traditions and Afro-American folk culture (folklore, spirituals, blues, jazz, sermons and dialect) on Afro-American literature. Readings will include the works of Charles Waddell Chesnutt, Paul Laurence Dunbar, Jean Toomer, Booker T. Washington, W. E. B. DuBois and Langston Hughes.

First semester. Professor Sanchez.

36. Black Literature II. Same description as Black Studies 35.

Second semester. Professor Sanchez.

50. African Elements in Brazil, Latin America and the Caribbean. A survey of the impact of African cultural elements in these areas. Emphasis is placed on African eschatological ideas; religious, philosophical and ethical notions; ideas of secret societies and their impact on the family, church, music, and language. Consideration will also be given to the social, political, and economic life in the respective areas. Much of the reading will be taken from Portuguese works translated into English and, where relevant, from French. A paper will be required.

Second semester. Professor Davis.

51. African Nationalism. The course will be concerned with traditional and ideological factors in African nationalism. The first part will examine Independent Church ideas: Ethiopianism, Zionism, Messianism, in the light of actual patterns of conduct in West, Central and South Africa. The second part will devote special attention to an assessment of political ideas as stated by a number of Africans in the nineteenth and twentieth centuries. Their relation to the evolution of African political parties and the emergence of independent states will also be considered. The course will be built around such concepts as "the political leader as a representative of a culture;" "the basis for African liberation;" "problems of multi-ethnic communities."

Limited to twenty-five students. First semester. Professor Davis.

55. Topics in Afro-American History. The history of black leadership in the South during Reconstruction.

First semester. Professor Uya.

62. Introduction to Black Religion in Africa and the Americas. An introduction to the main elements of African religion and to their role in the family, clan and tribe. Consideration will be given to variant cosmologies (Zulu, Yoruba, Fons, Ethiopian). Africanized Islamic elements will also be considered. The second part of the course will consider continuities and discontinuities in black religiosity as exemplified in the persistence of certain practices, beliefs and rituals across major changes brought on by slavery in

the Americas. Specific attention will be given to syncretisms and assimilations. One two and one-half hour session per week.

Elective for Sophomores and Juniors. Second semester. Professor Davis.

63. Comparative Slave Systems in Africa and the Americas. This course will focus upon the distinction between "slave-trade" and "slavery" in Africa, the anatomy of African slavery systems and their relation to community. It will also explore some of the major differences between slavery in Africa with that of the New World. The emphasis is on giving the student some understanding in depth of the variations between slave systems and their relation to the economic, religious and cultural situations confronting people of African ancestry.

Admission by consent of the instructor. To alternate with History 69. First semester. Omitted 1972–73. Professor Davis.

65. Economic Problems for Emerging African States.

First semester. Omitted 1972–73. The Department.

66. Development of Black Business and Financial Institutions. Current problems of Afro-Americans in urban communities.

Second semester. The Department.

67. Patterns of Black Politics.

First semester. The Department.

69. Introduction to Swahili. This course will cover the basic elements of Swahili, Swahili grammar, pronunciation, and reading, with emphasis on skill in speaking the language. Three hours a week for explanation and demonstration; one hour a week of laboratory for drill and oral comprehension.

First semester. Miss Mbelle.

African History to 1880. See History 69.

Requisite: Previous course work in the Department of History or the consent of the instructor. First semester. Professor Davis.

70. Elementary Swahili. A continuation of Black Studies 69.

Second semester. Miss Mbelle.

Modern African History. See History 70.

Requisite: History 69 or the consent of the instructor. Second semester. Professor Davis and Department.

73. The Black Family in the United States. An interdisciplinary study of the black family in the United States, with particular reference to African-heritage, post-Civil-War family structure and the impact of urbanization

upon the family as a unit. Guest lecturers will be invited as seem warranted by the development of a particular theme.

First semester. Professor Matthews.

74. Historiography and Black Studies. The course will explore and critically analyze major trends in the use of oral tradition in black historiography. This term primary emphasis will be placed on bibliographical data. Although the course will concentrate on comparative data, each participant will be expected to concentrate his research on a theme of his own interest.

Second semester. The Department.

Central and South Africa in the Nineteenth-Twentieth Century. See History 75.

First semester. Omitted 1972–73. Professor Davis.

77, 78, D78. Honors Course. Senior Honors. Preparation of an honors thesis.

97, H97. Special Topics. Independent Reading Courses. Full or half course.

First semester. The Department.

98, H98. Special Topics. Independent Reading Courses. Full or half course.

Second semester. The Department.

The following courses are available for inclusion in a Black Studies Program in 1972–73:

Seminar in Genetics. See Biology 52.

Requisite: Biology 21 and consent of the instructor. Elective for Juniors. Limited to fifteen students. Second semester.

The Economics of Urban Problems. See Economics 23.

Requisite: Economics 11. First semester. Professor Kohler.

Modern Africa: The Intellectual Heritage. See History 76.

Limited to fifteen students with consent of the instructor. Second semester. Omitted 1972–73. Professor Gifford.

World Music. See Music 23 and 24.

Requisite: Music 11 or consent of the instructor. First and second semesters. Professor Cole.

Seminar in the Music of John Coltrane. See Music 52.

Requisite: Consent of the instructor. Limited to ten students. Second semester. Professor Cole.

Politics in Developing Nations. See Political Science 44.

Second semester. Mr. Schloming.

American Social Structure. See Sociology 12.

Elective for Freshmen. Second semester. Professor N. Birnbaum.

AMHERST COLLEGE

CHEMISTRY

Professors Fink*, Kropf (Chairman), and Silver; Associate Professor Sargent; Assistant Professors Hove, Kittelberger, Martin, Offenhartz and Waggoner.

Major Program. A student considering a major in chemistry should consult a member of the Department as early as possible, preferably during his freshman year. This will help the student elect a program which best fits his interests and abilities and which makes full use of his previous preparation. Programs can be arranged for students considering careers in chemistry, chemical physics, biochemistry, biophysical chemistry, medical research, medicine, and secondary school science teaching.

The minimum requirements for a major in chemistry are Chemistry 12, Biochemistry 30 or Chemistry 50, Chemistry 43, 44, 47, 48, Mathematics 12, and Physics 13 plus one physics course more advanced than Physics 13. Chemistry majors should take Chemistry 11 and 12 and Mathematics 11 in the freshman year if this is convenient.

Honors Program. A candidate for the degree with honors will also elect Chemistry 77 and D78 in the senior year. It would be helpful in pursuing an honors program for the student to have completed physical and organic chemistry by the end of his junior year. However, either of these courses may be taken in the senior year in an appropriately constructed honors sequence. Honors programs for exceptional interests, including interdisciplinary study, will be arranged on an individual basis by the departmental advisor.

Honors candidates will attend the chemistry seminar during their junior and senior years, participating in it actively in the senior year. All chemistry majors should attend the seminar in their senior year. At this seminar discussions of topics of current interest will be conducted by staff members, visitors and students.

In the senior year an individual thesis problem will be selected by the honors candidate in conference with some member of the Department. Current areas of research in the Department are: theoretical chemistry; quantum mechanical calculations for porphyrin and other compounds; conformational changes in biological macromolecules; lipid and protein chemistry of the biological membranes of nerves and red blood cells; nucleophilicity of carbon-carbon bonding electrons; reactions of aromatic anions; chemistry of the visual process; mechanism of organic reactions; enzyme catalyzed processes; studies of compounds with unusual magnetic and electrical properties; coordination chemistry and reaction mechanisms in inorganic systems; nuclear chemistry; fundamental kinetics in gaseous systems and at solid

*On leave 1972–73.

surfaces studied by molecular beam techniques; photochemistry; spectroscopic studies of the solid state; and biochemistry.

Each candidate will submit a thesis based upon his research work. Recommendations for the various levels of honors will be made by the Department on the basis of the thesis work, the comprehensive examination, and course performance.

11. Introductory Chemistry. Beginning with a discussion of the origin and formation of the elements, this course will study the structure of atoms, the formation of molecules, the nature of interatomic and intermolecular forces, the nature of chemical reactions in terms of rate and position of equilibrium, and the chemical basis of biological processes.

Students with a limited background in secondary school science will have an optional extra class hour available to them for increased instructional assistance.

This course has no prerequisites. Three class hours and three hours of laboratory per week.

Elective for Freshmen. First semester. Professors Hove, Sargent, and staff.

11s. Introductory Chemistry. Same description as Chemistry 11.

Elective for Freshmen. Second semester.

12f. Chemical Principles. An examination of the relationships among structure, stability, and chemical change. The thermodynamic and kinetic criteria for stability of both inorganic and organic compounds will be investigated. Topics such as geometrical and structural isomerism, physical methods of structure determination, the use of thermodynamics in determining the position of equilibrium in inorganic, biochemical, and organic reactions, and the use of chemical kinetics in the determination of the rate of attainment of equilibrium will be discussed. Appropriate laboratory work will be performed. Four class hours and three hours of laboratory per week.

Requisite: Chemistry 11 (This requirement may be waived for exceptionally well prepared students. Consent of the instructor is required.), Mathematics 11 or its equivalent. Elective for Freshmen. First semester. Professors Kropf, Silver, and staff.

12. Chemical Principles. Same description as Chemistry 12f. Elective for Freshmen. Second semester. Professors Kropf, Silver, and staff.

Colloquium in Modern Experimental Science. See Colloquia, p. 184.

Requisite: Permission of the course chairman. Elective for Juniors and Seniors who have completed at least three semester courses toward a major in biology, chemistry, geology or physics. Limited to fifteen students. Second semester. Professors Benson (Chairman), Brophy, Fisher, Godchaux, Hove, Kuntz, Tinker, Valberg, and Waggoner.

Colloquium in Environmental Chemistry and Physics. See Colloquia, p. 185.
Enrollment is limited; permission of the instructors required. Second semester. Professors Romer and Yost.

Inquiry in the Natural Sciences: The Nature of Light, Vision and Visual Perception. See Inquiry Courses, p. 191.
Elective for Freshmen. Second semester. Professors Kropf and Towne.

Biochemistry. See Biochemistry 30.
Requisites: One semester of organic chemistry and one semester of biology. The biology requirement may be waived for chemistry majors. Second semester. Professors Godchaux and Waggoner.

43. Organic Chemistry. Structure, properties, and reactions of organic chemical compounds. Special emphasis is placed upon the effect of structure on reactivity. Topics include spectral properties, conformational analysis, reaction mechanisms, modern synthetic methods, and biochemical applications. Laboratory work emphasizes methods of separation and purification, instrumental analysis, multistep syntheses, kinetic determinations, and organic qualitative analysis. Three to four hours of lecture and discussion and four hours of laboratory per week.
Requisite: Chemistry 12 or equivalent. First semester. Professors Sargent, Silver, and staff.

44. Organic Chemistry. A continuation of Chemistry 43.
Requisite: A grade of C or better in Chemistry 43, or permission of the instructor. Second semester. Professors Sargent, Silver, and staff.

47. Modern Physical Chemistry. Elementary quantum mechanics. Topics include the time-independent Schrödinger equation, approximate methods of solution, applications to the structure and properties of atoms, molecules and solids, the chemical bond, and intermolecular forces. The laboratory includes quantitative spectroscopy and spectrophotometry applied to atoms and molecules. Three hours of lecture and four hours of laboratory per week.
Requisite: Chemistry 12 or equivalent. Physics 14 or a course more advanced than Physics 14, and Mathematics 12. First semester. Professors Kittelberger and Offenhartz.

48. Modern Physical Chemistry. Equilibrium statistical thermodynamics and kinetics. Topics include Fermi-Dirac, Bose-Einstein and Boltzmann statistics, applications to ideal gases, crystalline solids and an introduction to theories of the liquid state. Theories of chemical reaction rates and energy transfer rates will be developed and applied to gases and solutions. Photochemistry and recent advances in chemical dynamics will be discussed. The laboratory

emphasizes the microscopic nature of macroscopic properties of matter, and the dynamics of chemical reactions and energy transfer. Three hours of lecture and four hours of laboratory per week.

Requisite: Chemistry 47 or equivalent, or permission of instructor; Chemistry 12 or equivalent, Physics 14 or a course more advanced than Physics 14, and Mathematics 12. Second semester. Professors Kittelberger and Offenhartz.

50. Inorganic Chemistry. Significant types and trends of structure, bonding, and reactivity for the chemical elements in general will be examined and compared on the bases of fundamental atomic theory and periodic correlations. Current methods of systematization will be examined on this basis. Current developments in inorganic chemistry will be selected and studied in a similar format.

Requisite: Chemistry 47. Second semester. Professor Hove.

77, D77. Honors Course.

Elective for Senior honors candidates, and for others with the consent of the Department. First semester. The Department.

78, D78. Honors Course.

Elective for Senior honors candidates, and for others with the consent of the Department. Second semester. The Department.

97, H97. Special Topics. A full or half course.

First semester. Consent of the Department is required. The Department.

98, H98. Special Topics. A full or half course.

Second semester. Consent of the Department is required. The Department.

CLASSICS

Associate Professor Marshall (Chairman); Assistant Professors Flory and Lebeck†; Mr. Griffiths.

Major Program. All courses offered by the Department may be counted toward the major except those numbered 1, 1s, and 3; but of Greek 11 or 12 only one may be counted, and only then if both have been elected. Latin 15–16 will normally be introductory to higher courses in Latin, and Greek 15–16 will serve the same function in Greek. A major may be entirely in Greek or entirely in Latin and will then consist of eight semester courses, two of which may be in related fields. A major in Classics will consist of eight semester courses in the Classics, which may be divided in any proportion between Greek and Latin, except that no fewer than two may be taker

†On leave first semester 1972–73.

in either language. Every *rite* student majoring in the Classics Department, whether in Classics, Greek, or Latin, will write a comprehensive examination in the spring of his senior year. This examination will in general resemble the honors examination described below, except that of course there will be no questions specifically on the candidate's honors work.

Honors Program. Honors may be awarded to those candidates who major in Greek or in Latin or in Classics and who take eight semester courses in the Department. Every honors candidate must include in his program those courses numbered 41, 42, 77 and 78 in either Greek or Latin. He must submit a long essay (6000–7000 words) on some topic connected with his honors work and approved by the Department. He must have read extensively in Greek or Latin literature or both. He must also read independently, i.e., not as a part of the work in a course, approximately 50 pages of some Greek or Latin text selected with the approval of the Department. In the second semester of his senior year he will be given a written examination covering: (a) his honors work; (b) his reading in the classical literatures. The emphasis in this examination will be on the literary and historical interpretation of major authors; there will be considerable latitude of choice among various optional questions. The award of honors will be determined by the quality of the candidate's course work, of his essay, and of his performance in the general examination.

The Department will cooperate with other departments in giving combined majors with honors.

The statement of requisites given below is intended only to indicate the degree of preparation necessary for each course, and exceptions will be made in special cases.

For students beginning the study of Greek the following sequences of courses are normal: Either 1, 12, 11, or 1s, 11, 12.

Classics

Human Suffering and the Quest for Meaning. See Colloquia, p. 185.

Second semester. Professors Babb, Lebeck, and Pemberton.

Inquiry in the Humanities. See Inquiry Courses, p. 190.

Elective for Freshmen and Sophomores. Second semester. Professors Epstein, Lebeck, and Pritchard.

23. Classical Civilization. A study of the civilization of Greece from Homer to Alexander and its contribution to the civilization of the West. Readings from Greek literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week.

Elective for Sophomores. First semester. Mr. Griffiths.

24. Classical Civilization. A study of Roman civilization and its contribution to the civilization of the West. Readings from Latin literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week.

Elective for Sophomores. Second semester. Professor Marshall.

32. Problems in Greek Civilization. Topics of particular interest in Greek civilization, such as: Greek political experience and ideas; the transition from mythological to scientific and philosophical modes of thought; the Greek view of human nature. Subjects will be studied in greater depth than is possible in Classics 23. All reading will be in English. Written and oral presentations will be offered by students at intervals during the semester.

Requisite: Classics 23 or consent of the instructor. Seminar course, restricted to fifteen students. Second semester. Mr. Griffiths.

33. Problems in Roman Civilization. An examination of specific areas of Roman life and thought which have been particularly influential in Western civilization. Topics will include: religions in Rome; the use and abuse of propaganda; government—theory and practice. Subjects will be studied in greater depth than is possible in Classics 24. All reading will be in English.

Requisite: Classics 24 or consent of the instructor. Seminar course, restricted to fifteen students. First semester. Professor Marshall.

Ancient and Modern Literature. See Colloquia, p. 187.

Limited to fifteen students. Elective for Juniors with the consent of the instructors. Second semester. Omitted 1972–73. Professor Epstein.

Greek

1. Introduction to the Greek Language. Attic Greek. Four hours of classroom work per week. This course is normally followed by Greek 12.

Elective for Freshmen. First semester. Professor Flory.

1s. Introduction to the Greek Language. Homeric Greek. Four hours of classroom work per week. This course is normally followed by Greek 11.

Elective for Freshmen with the consent of the instructor. Second semester. Mr. Griffiths.

11. The Iliad. Four hours of classroom work per week.

Requisite: Greek 1s or 12. Elective for Freshmen. First semester. Professor Flory.

12. Plato's Apology. Four hours of classroom work per week.

Requisite: Greek 1 or 11. Elective for Freshmen. Second semester. Professor Flory.

15. Greek Tragedy. One or two tragedies will be read. Three one-hour class meetings per week.

Requisite: Greek 12 or its equivalent. Elective for Freshmen. First semester. Mr. Griffiths.

16. Readings from the Odyssey and from the Lyric Poets. Three one-hour class meetings per week.

Requisite: Greek 15 or its equivalent. Elective for Freshmen. Second semester. Professor Lebeck.

H21s. Greek Prose Composition and Style. This course is designed to strengthen and refine the student's mastery of the Greek language. There will be two principal types of exercise, *viz.:* (a) translation of English passages into Greek and original composition in Greek; and (b) close scrutiny of selected passages of classic Greek prose. One hour of classroom work per week. A half course. Offered in alternate years.

Elective for Sophomores. Second semester. Professor Lebeck.

41. Advanced Readings in Greek Literature. The authors read in Greek 41 and 42 vary from year to year, the selection being made according to the needs of the students; but as a general practice Greek 41 will be devoted in alternate years to Greek tragedy and to Plato. Two or more hours of classroom work per week.

Requisite: Greek 15 or 16. Seminar course elective for Juniors. Omitted 1972–73. Professor Flory.

42. Advanced Readings in Greek Literature. See course description for Greek 41. In 1972–73, Greek 42 will be devoted to Plato's *Republic* and will be given in conjunction with Smith College's Greek 334b. Two or more hours of classroom work per week.

Requisite: Greek 15 or 16. Seminar course elective for Juniors. Second semester. Professors Flory (Amherst) and Simpson (Smith).

77, D78. Senior Honors Course. Greek 78 is a double course.

First and second semesters.

97, 98. Special Topics.

First and second semesters. Members of the Department.

Latin

3. Intermediate Course. Review of Latin grammar; selections from Latin prose and poetry. Four one-hour class meetings per week.

Requisite: Two or three entrance units in Latin. Elective for Freshmen. First semester. Mr. Griffiths.

15. Catullus. Attention will be given to Catullus as a literary artist and interpreter of the society of the late Republic. Three one-hour class meetings per week.

Elective for Freshmen. First semester. Professor Marshall.

16. Virgil's Eclogues and Horace's Odes. Three one-hour class meetings per week.

Requisite: Latin 15, or four entrance units in Latin. Elective for Freshmen. Second semester. Professor Flory.

H21s. Latin Prose Composition and Style. A course designed to strengthen and refine the student's mastery of the Latin language. There will be two principal types of exercise, *viz.*: (a) translation of English passages into Latin and composition in Latin; and (b) close scrutiny of selected passages of classic Latin prose. One hour of classroom work per week. A half course. Offered in alternate years.

Elective for Sophomores. Second semester. Omitted 1972–73.

H27. Latin Poetry: Lyric and Pastoral. Intended for students of literature who wish to acquire some knowledge of the influence of Latin poetry on the English literary tradition. Poems of Catullus, Horace, and Virgil will be read and interpreted from a literary point of view, and attention will be paid to similar poems in English. Students must have some knowledge of Latin and some familiarity with poetry. Two hours of classroom work per week. A half course.

Elective for Sophomores with the consent of the instructor. Limited to fifteen students. First semester. Omitted 1972–73.

28. Virgil's Aeneid. At least three books will be read in Latin, and the whole poem will be examined in translation. Three hours of classroom work per week, with one additional hour for students needing more help in the language.

Requisite: Latin 3 or the consent of the instructor. Elective for Freshmen. Second semester. Omitted 1972–73.

41, 42. Advanced Readings in Latin Literature. The authors read in these courses vary from year to year, the selection being made according to the interests and needs of the students. In 1972–73, Latin 41 will be devoted to Tacitus and Latin 42 to Roman elegy. Two or more hours of classroom work per week. Seminar course.

Requisite: Latin 15 or 16 or the consent of the instructor. Elective for Juniors. First and second semesters. Professor Marshall.

77, D78. Senior Honors Course. Latin 78 is a double course.

First and second semesters.

97, 98. Special Topics.
First and second semesters. The Department.

Colloquia. See page 184.

Common Studies. See page 191.

DRAMATIC ARTS

Professor Boughton (Chairman); Assistant Professors Bierman*, Boyer, Dorn, and Warner.

Major Program. Rite majors will complete Dramatic Arts 11 and seven additional courses in Dramatic Arts (selected in conference with the department) including two courses in theater production and two courses in dramatic literature.

Honors Program. Honors candidates will include Dramatic Arts 77–78 as two of the seven courses selected.

11. Introduction to the Theater. A consideration of the materials of creative expression in drama; an appreciation of the playwright's work and how his script is brought to fruition in production. Four hours of classroom work per week.

Elective for Freshmen. First semester. Professors Boughton, Boyer, and Warner.

21. Classical Drama. A study of classical traditions in ancient Greek and Roman, Medieval and Renaissance theater. Three hours of classroom work per week.

First semester. Professor Boyer.

22. Eighteenth and Nineteenth Century Continental European Drama. An examination of the decline of classicism in early eighteenth century theater and the subsequent rise of the middle-class drama, romanticism, realism and naturalism. Three hours of classroom work per week.

Second semester. Professor Boyer.

23s. Problems in Twentieth-Century Drama. This course will examine the battle of the literate versus the non-literate theater in the twentieth century. It will consider in what directions the continued tension between Establish-

*On leave 1972–73.

ment and Avant-Garde has moved the theater. Three hours of classroom work per week.

Second semester. Omitted 1972–73. Professor Bierman.

31. Principles of Dramatic Production. A study of directing, acting, scene design and stage lighting considered as instruments of dramatic interpretation. Four hours of classroom work per week.

Elective for Sophomores. First semester. Professors Boughton, Dorn, and Warner.

32. Principles of Dramatic Production. Continuation of Dramatic Arts 31, culminating in public performance. Four hours of classroom work per week.

Requisite: Dramatic Arts 31. Elective for Sophomores. Second semester. Professors Boughton, Dorn, and Warner.

44. Art of the Film. History of the development of film art by viewing and analysis of significant films from the beginning to the present day, with emphasis on the development of film syntax and the forming of a critical vocabulary. Approximately four hours of classroom work per week: two in film showings and two in a lecture-discussion period.

Admission with the consent of the instructor. Second semester. Omitted 1972–73. Professor Bierman.

51. Seminar in Dramatic Literature.

Admission with the consent of the instructor. First semester. Professor Boyer.

52. Seminar in Dramatic Literature.

Admission with the consent of the instructor. Second semester. Professor Boyer.

53. Seminar in Stage Lighting.

Admission with the consent of the instructor. First semester. Professor Dorn.

54. Seminar in Stage Lighting.

Admission with the consent of the instructor. Second semester. Professor Dorn.

55. Stage Design; The Craft. A studio course in the methods of presentation and technical solutions for conventional design problems. Emphasis is upon the technique of drafting, rendering and model building; historical research; visual composition, and the design of a functional floor plan.

Admision with the consent of the instructor. First semester. Professor Warner.

56. Stage Design; The Art. Projects and discussions of images and their realization in theatrical form. Emphasis upon the interaction of the design, the dramatic action, and the audience. Projects include designs for plays,

ballets, environments, playgrounds and flexible spaces. Discussion of works by other designers, artists, and sculptors.

Requisite: Dramatic Arts 55. Second semester. Professor Warner and guest lecturers.

58. Seminar in Directing.

Admission with the consent of the instructor. Second semester. Professor Boughton.

77. Conference Course. Conference course for honors candidates in dramatic arts.

Elective for Seniors. First semester. The Department.

78. Conference Course. Continuation of Dramatic Arts 77 for honors candidates in Dramatic Arts.

Elective for Seniors. Second semester. The Department.

97, H97. Special Topics. Independent Reading Course. Full or half course.

Admission with the consent of the instructor. First semester. The Department.

98, H98. Special Topics. Independent Reading Course. Full or half course.

Admission with the consent of the instructor. Second semester. The Department.

ECONOMICS

Professors Aitken, Beals, Collery (Chairman), Kohler, and Nelson; Assistant Professors Breneman*, Nicholson, and Sears.

Major Program. All students majoring in economics must take eight courses in the Department. These courses must include Economics 11, 13, 14, and 15. Mathematics 11 or equivalent is also required. With the consent of the Department, other preparation in statistics may be substituted for Economics 15. *Rite* students must take Economics 73, and students who are candidates for honors must take Economics 77 and D78. For 1972-73, seniors may substitute Economics 29 for Economics 73 or 77.

Students intending to pursue graduate study in economics are strongly advised to take additional courses in mathematics beyond Mathematics 11.

Each candidate for a degree in economics is required to pass a comprehensive examination during his senior year. The examination is given near the end of the first semester. Each student who writes a thesis is examined on his thesis in May.

Economics 11 is a requisite for all other courses in economics. Students with previous work in economics may be excused from this requirement if

*On leave 1972–73.

they demonstrate an understanding of basic economic principles. A competency examination is given annually early in the first semester.

Unless otherwise specified, all courses are open to freshmen.

11. An Introduction to Economics. A study of the central functions and problems of an economic system, of the principles and practices of our economy, and of other forms of economic organization and control. One lecture and three hours of discussion per week.

Requisite for all other courses in economics. First semester. Professors Aitken, Kohler (Course Chairman), Nelson, Nicholson, and Sears.

11s. An Introduction to Economics. Same course description as Economics 11.

Second semester. Professors Beals, Collery (Course Chairman), Kohler, Nelson, and Sears.

13. Money, Banking, and National Income. A study of money and finance and their relation to the functioning of an economic system. An introduction to the theory of income determination with an indication of the role that money and finance play in the determination of employment, production, and prices. Two lectures and two hours of discussion per week.

Requisites: Economics 11 and Mathematics 11 or equivalent. First semester. Professor Collery.

14. The Theory of Price. An introduction to the theory of utility and demand; the nature of cost and the production function; diminishing returns and short-run cost curves; returns to scale and long-run cost curves; competitive pricing; the pricing of productive services; the theory of monopoly; the theory of oligopoly; cartels and unions; the distribution of income; general equilibrium. Three class hours per week.

Requisites: Economics 11 and Mathematics 11 or equivalent. Second semester. Professor Nicholson.

15. Economic Statistics. A study of the analysis of quantitative data, with special emphasis on the application of statistical methods to economic problems. Three class hours per week. (Formerly Economics 45.)

Requisites: Economics 11 and Mathematics 11 or equivalent. First semester. Professor Beals.

21s. Human Resources. A study of manpower economics and welfare policy in the context of the United States economy. Effects of investment in human capital, discrimination, and other economic-political factors on the distribution of income will be explored. Three class hours per week.

Requisite: Economics 11. Second semester. Professor Sears.

23. The Economics of Urban Problems. An inquiry into the nature and causes of the contemporary crisis of urbanized society as evidenced by poverty, slum housing, urban sprawl, traffic congestion, and the pollution of air, soil, and water. The theoretical basis for dealing with these problems is developed. Three class hours per week.

Requisite: Economics 11. First semester. Professor Kohler.

24. The American Economy. An examination of the structure and operation of the economic system of the United States, with particular emphasis upon the different types of markets and industrial structures, the role and behavior of the price mechanism, the evolution of public policies, and selected current economic issues. Two lectures and two hours of discussion per week.

Requisite: Economics 11. Second semester. Professor Nelson.

25. Monopoly Regulation. The theory of monopoly pricing and price discrimination; objectives and methods of public control of prices, profits, and service by public utilities and transportation agencies. Three class hours per week.

Requisites: Economics 11 and Economics 14 or 24. First semester. Omitted 1972–73. Professor Nelson.

26f. Consumers and Consumerism. An examination of selected topics which illustrate the ways in which individuals make choices. The course is primarily empirical and utilizes some of the vast amounts of data on individual behavior which exist. Hypotheses are proposed which may explain those empirical regularities which are observed. Particular topics covered vary from year to year depending on the interests of students in the course. Possible subjects for study are: the economics of the family and fertility; labor force behavior of married women; the decision to purchase durable goods and to obtain consumer credit; the economics of life insurance; gambling; consumerism and product safety; and the economics of inheritance. Three class hours per week.

Requisite: Economics 11. First semester. Professor Nicholson.

27. European Economic History. An examination of the economic development of Europe from feudal times to the present day with emphasis on the evolution of industrialism. One two-hour seminar per week.

Requisite: Economics 11. First semester. Omitted 1972–73. Professor Aitken.

28. American Economic History. A study of the economic development of the United States from colonial times to the present day. One two-hour seminar per week.

Requisite: Economics 11. Second semester. Professor Aitken.

29. The History of Economic Ideas. A seminar in the development of eco-

nomic theory, covering both representatives of the orthodox classical tradition and selected economic "heretics" and innovators. Two hours of classroom per week, plus extensive independent study.

Requisites: Economics 11 and consent of instructor. First semester. Professor Aitken.

31s. Public Finance. Introduction to the economic analysis of the revenue and expenditure activities of governments. Emphasis on the effects of government policies on the allocation of resources and the distribution of income. Three class hours per week.

Requisite: Economics 11. Second semester. Professor Beals.

32. Problems in Economic History. An advanced seminar in economic history intended primarily to provide further training in analysis, bibliography, and interpretation. One two-hour seminar per week.

Requisites: Consent of instructor and either Economics 27 or 28. Limited to fifteen students. Second semester. Omitted 1972–73. Professor Aitken.

Historical Problems and Economic Analysis. See Colloquia, p. 186.

Requisite: Permission of the instructors. Limited to twenty-five students. Second semester. Professors Aitken and Halsted.

33. Medical Economics. An analysis of the United States system of medical care, with emphasis upon the supply and distribution of medical personnel, the financing of health care, the problems of rising hospital costs, and evaluation of alternative organizational forms for delivery of medical care. The course will be offered once every two years and should be of special interest to pre-med students. One two-hour seminar per week.

Requisite: Economics 11 or consent of instructor. First semester. Omitted 1972–73.

35. The World Economy. An examination into the problems of economic relationships among countries with emphasis on balance-of-payments problems, political problems of trade restrictions, international cooperation, and imperialism. Three class hours per week.

Requisite: Economics 11. First semester. Professor Sears.

36. Economic Development. An examination into the problems of economic growth with particular reference to less developed countries; the interaction of economic and noneconomic factors, population growth and the labor force, capital requirements, market development, foreign investment and aid, and the role of government. Case materials from selected countries will be used. Three class hours per week.

Requisite: Economics 11. Second semester. Omitted 1972–73.

38. The Economics of Socialism. A study of the theory and practice of planned economies with particular reference to the Soviet Union and Com-

munist China. Three class hours per week.
Requisite: Economics 11. Second semester. Professor Kohler.

46. Econometrics. An introduction to problems of econometric model construction and estimation. Three class hours per week.
Requisite: Economics 15. Second semester. Professor Nicholson.

73. Senior Rite Seminar. Required of senior *rite* majors in economics. (For 1972–73, seniors may substitute Economics 29.)
First semester. Professors Beals and Nelson.

D74. Senior Rite Seminar. Preparation of a thesis on a topic approved by the Department. A double course.
Open only to seniors majoring in economics who are not candidates for honors. Second semester.

77. Senior Honors Seminar. Required of seniors majoring in economics who are candidates for honors. (For 1972–73, seniors may substitute Economics 29.) First semester. Professors Beals and Nelson.

D78. Senior Honors Seminar. Preparation of a thesis on a topic approved by the Department. A double course. Required of seniors majoring in economics who are candidates for honors. Second semester.

97, H97. Special Topics. Independent Reading Course. A full course or a half course. First semester.

98, H98. Special Topics. Independent Reading Course. A full course or a half course. Second semester.

Education. See page 193.

ENGLISH

Professors Cameron‡, Cody (Chairman), Craig, DeMott*, Guttmann, Heath, Marx, and Pritchard; Associate Professors Chickering, Sofield, and Townsend and Visiting Lecturers Fessenden and Stone; Assistant Professors Bruss, Holdreith*, O'Connell, and Peterson.

Major Program. The student majoring in English must elect English 11 and six other semester courses offered or approved by the English Department. He must also take part in the comprehension exercise in English that is given in the spring of the senior year. He should plan his program carefully in consultation with his departmental advisor, taking into account both his own particular interests and the offerings of the department.

*On leave 1972–73.
‡On leave second semester 1972–73.

Students in all classes who have enrolled as majors or who intend to do so should obtain a department statement about planning programs from the English Department Office in Johnson Chapel as early as possible, preferably before the registration period begins.

Honors Program. Exactly as above, except that candidates for Honors must also elect, in their senior year, English D77.

N.B. The English Department does not grant advanced placement on the basis of College Entrance Examination Board scores. The character of the departmental offering is not such as to make advanced placement a meaningful idea. English 11 is conceived as a course of interest to entering students at any level of preparation in the study of English.

Unless otherwise specified, all courses are open to Freshmen.

11. Writing and Reading. Intended to be of general interest to students in the College. An examination of some of the imaginative uses of language through frequent composition and close reading of literary and non-literary materials. Three class meetings a week.

Elective for Freshmen, who will be given priority in enrollment. First semester. Professors Bruss, Chickering (Chairman), Fessenden, Heath, O'Connell, Peterson, and Pritchard.

12. A Critical Perspective on English Literature. A chronological reading of major works, to acquaint the student with the literary imagination. Chaucer, Shakespeare, Donne, Milton, Pope, Dr. Johnson, Wordsworth, Jane Austen, Mill, Newman, Henry James, Yeats, Lawrence, and Frost will be studied. Three class meetings per week.

Elective for Freshmen. Second semester. Professors Bruss, Craig, and Sofield (Chairman).

21. Advanced Composition. A course in disciplined writing comprised of two sections, verse and prose. Students are expected to work independently without specific assignments. Class discussions of manuscripts and frequent conferences with the instructor. One two-hour meeting per week.

Elective for Sophomores with the consent of the instructor. Limited to fifteen students. First semester.

1. *THE WRITING OF POETRY.* Miss Fessenden.

3. *THE WRITING OF PROSE FICTION.* Mr. Stone.

Inquiry in the Humanities. See Inquiry Courses, p. 190.

Elective for Freshmen and Sophomores. Second semester. Omitted 1972–73. Professors Epstein, Lebeck, and Pritchard.

Colloquium in Literature, Art and Society in Renaissance Italy. See Colloquia, p. 186.

Elective for Juniors. Admission by consent of the instructors. Second semester. Professors Cheyette and Chickering.

22. Advanced Composition. A continuation of English 21. One two-hour meeting per week.

Elective for Sophomores with the consent of the instructor. Limited to fifteen students. Second semester.

2. *THE WRITING OF POETRY.* Miss Fessenden.

4. *THE WRITING OF PROSE FICTION.* Mr. Stone.

23. Composition: The Resources and Limits of General Discourse. An attempt to put together the language of specialized knowledge with the language of general concern. Frequently assigned short papers will be the main work and supply the main material (class discussions will be based on mimeographed samples of assigned papers). A final longer paper will move from the consideration of a twentieth century autobiographical document (to be selected in conference with the instructor) to an assessment of the student's own intellectual and social life. Two meetings per week.

Elective for Juniors. Limited to fifteen students. First semester. Professors Craig and Heath.

23s. Composition: The Resources and Limits of General Discourse. Same course description as English 23.

Elective for Juniors. Limited to fifteen Amherst College students. Students from other colleges admitted in addition up to seven. Second semester. Professor Heath.

24. Writing Fiction. Class discussion of manuscripts and conferences with instructor. One two-hour meeting per week.

Elective for Juniors and Seniors with the permission of the instructor. Limited to twelve students. Second semester. Omitted 1972–73. Professor DeMott.

25. Discussions of Literature. Each of these courses is taught specifically as a small discussion section, in which a member of the department undertakes to introduce beginning, as well as more experienced students to topics which are of recent and peculiar interest to herself or himself as a continuing student of English, and which are not usually represented in the standard departmental offering. The common aim is to refine the student's awareness of what constitutes the study of literature.

Elective for Freshmen, unless otherwise restricted. No student will be permitted to repeat English 25 more than once. Each section is limited to fifteen, except as noted. Students should elect a particular section of the course, listing alternates if desired. Admission will be determined by the instructor of the section. Requisite: English 11 or the consent of the instructor. First semester. The course may be repeated for credit.

1. *THE POETRY OF ORDINARY LIFE.* An examination of a group of writers who possess special gifts of vision and feeling when treating

prosaic subjects, together with a few writers who illustrate contrasting virtues of the imagination. Class discussion will explore appropriate ways of talking about literary works closely related to the reader's everyday experience. Selected poems by Hardy, D. H. Lawrence, Keats, Wordsworth, Whitman, Philip Larkin and others. Plays and novels of provincial life by Ray Bradbury, Dylan Thomas, Jane Austen, Chekhov, and George Eliot. One two-hour meeting weekly. Elective for Sophomores. Professor Chickering.

3. *SMALL TOWN LITERATURE.* A study of small towns, carried out through readings, through field work, and through students' own writings on Amherst, Massachusetts. Among works to be considered in 1972–73 are: Agee, *Let Us Now Praise Famous Men*; Anderson, *Winesburg, Ohio*; Blythe, *Akenfield*; Dollard, *Caste and Class in a Southern Town*; Howe, *The Story of a Country Town*; and Sennett, *The Uses of Disorder.* One two-hour meeting a week. Elective for Sophomores. Admission to the course by consent of the instructor. Professor Townsend.

5. *BLAKE'S JERUSALEM.* A study of William Blake's *Jerusalem* as poem, prophecy and artifact. Collateral reading in other Blake poems, the Bible, and modern literary criticism. Two meetings a week. Limited to fifteen Amherst College students. Students from other colleges admitted in addition up to seven. Omitted 1972–73. Professor Heath.

7. *FICTION.* How it is now. An exploration of fiction's attempts to define and convey visions of contemporary reality. Burroughs, Kesey, Michel Bernanos, and others. Elective for Sophomores. One two-hour meeting a week. Mr. Stone.

9. *LINGUISTICS AND LITERATURE.* A study of how linguistic methods and categories may be used to discover and formulate the style and structure of a piece of literature. Readings will include pre-War European theory (Jacobson, Mukarovsky), as well as more recent work in "stylistics" by Halliday, Ohmann, Barthes, and others. A background in linguistics is desirable but not required. Two meetings per week. Professor Bruss.

11. *CULTURE AND ITS ALTERNATIVES.* The origin and radical criticism of the idea of high culture. Readings in selected poets and critics of the nineteenth century such as Wordsworth, Coleridge, Cobbett, Arnold, and their twentieth century successors. Two meetings a week. Elective for Juniors. Limited to fifteen Amherst College students. Students from other colleges may be admitted in addition up to seven. Omitted 1972–73. Professor Heath.

25s. Discussions of Literature. Same course description as English 25. Requisite: English 11 or the consent of the instructor. Elective for Fresh-

men unless otherwise restricted. Second semester. The course may be repeated for credit.

2. *THE GOTHIC NOVEL AND AMERICAN GOTHIC.* Beginning with an investigation of the origins and definitions of "Gothic" fiction, a sustained effort will be made to isolate and identify some recurring thematic concerns in Gothic writings. Discussions will concentrate on an examination of the effects of transplanting a European novelistic tradition onto American, and especially Southern, soil. Readings will span developments in England and America, ranging from Mrs. Radcliffe to Iris Murdoch, from Charles Brockden Brown to Flannery O'Connor. Two meetings a week. Omitted 1972–73. Professor Peterson.

4. *LITERATURE OF TRAVEL AND EXPLORATION.* A study, by means of reading and writing, of the ways in which discovery is experienced and expressed. Emphasis will be given to English and American writers of the nineteenth century—such as Thoreau, Darwin, Burton—with attention to earlier and later figures. Frequent composition at the beginning of the course, an independent project at the end. Limited to fifteen Amherst College students. Students from other colleges may be admitted in addition up to seven. Professor Heath.

6. *VLADIMIR NABOKOV.* See Russian 25s.
Elective for Sophomores. Limited to twenty students. Professor Peterson.

8. *FICTION.* How it is now. A continuation of English 25, Section 7. Elective for Sophomores. Mr. Stone.

10. *THE LITERATURE OF LOGIC AND GAMES.* An approach to the growing body of literature which is based on problem-solving and game participation by readers, rather than, for example, "imitation of life" or "expression of emotion." Primitive forms such as riddle and fable will be considered, as well as works by Aristophanes, Fielding, Melville, Poe, Carroll, Nabokov, Borges, and Beckett, among others. Two meetings per week. Professor Bruss.

12. *EIGHTEENTH CENTURY FOUNDATIONS OF MODERN POETRY.* An excavation for foundations of modern sensibility in seventeenth and eighteenth century writings: John Locke, J. J. Rousseau, Lord Shaftesbury, Denis Diderot and others. Routes their works travelled through eighteenth century Germany, back to Coleridge's England and into twentieth century poetry will be explored. Two meetings a week. Miss Fessenden.

14. *THE LITERATURE OF SOCIAL CRITICISM AND PROPHECY.* An examination of selected American writings on society and politics between the Civil War and 1920. The writings used will be drawn from

fiction, social science, and politics. Discussions will explore relationships between form and motive, ideology and audience in each work. Among the authors to be considered are DeForest, George, Sumner, Bellamy, Garland, Goldman, Veblen, Lloyd, Adams, Brooks, and Sullivan. One two-hour meeting weekly. Professor O'Connell.

27. Readings in Medieval Literature. Readings vary yearly. Three class hours per week.

Elective for Freshmen. First semester. Omitted 1972–73. Professor Chickering.

28. Chaucer. Selected major poems will be read in the original. Other English writers, medieval and modern, will also be read. Three class hours per week.

Elective for Freshmen. Second semester. Professor Chickering.

31. Shakespeare. Readings and discussion. Two class meetings per week.

Elective for Sophomores. First semester. Omitted 1972–73. Professor DeMott.

32. Shakespeare. Readings and discussion.

Requisite: English 31. Elective for Sophomores. Limited to twenty students. One two-hour meeting per week. Second semester. Omitted 1972–73. Professor DeMott.

33. Sixteenth Century Literature. (i) An introduction to the humanist prose of the European Renaissance in translation—Erasmus (*Praise of Folly*), More (*Utopia*), Castiglione (*The Courtier*); (ii) a survey of English lyric poetry—Wyatt, Spenser, Sidney, Ralegh, Shakespeare; (iii) a critical approach to Elizabethan revenge tragedy, romantic comedy and the history play—Kyd (*The Spanish Tragedy*), Marlowe (*Tamburlaine, Dr. Faustus, The Jew of Malta*), Shakespeare (*Hamlet, As You Like It, Henry IV*). Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). First semester. Professor Cody.

34. Seventeenth Century Literature. A critical and historical study of the major poets and playwrights: Shakespeare (*Much Ado About Nothing, King Lear, The Tempest*), Donne, Jonson (*The Alchemist*), Webster (*The Duchess of Malfi*), Herbert, Milton (*Paradise Lost, Samson Agonistes*), and Marvell. Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). Second semester. Professor Sofield.

36. Literature and Society, 1660–1780. Reading of some poetry, prose and drama of the Restoration and eighteenth century. Major writers to be considered are Dryden, Congreve, Pope, Swift, Gibbon, and Samuel Johnson. Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). Second semester. Professor Pritchard.

40f. The Eighteenth Century English Novel. Readings in Defoe, Swift, Richardson, Fielding, Johnson, Sterne, Smollett, and others. Three meetings per week.

Elective for Sophomores (and Freshmen with permission of the instructor). First semester. Omitted 1972–73. Professor Holdreith.

43s. Readings in Romantic Poetry. A study of the writings of Blake, Wordsworth, Coleridge, Keats, Shelley, and Byron. Three class meetings per week.

Elective for Sophomores (and Freshmen with the consent of the instructor). Second semester. Professor Townsend.

45. Victorian Poetry. Tennyson, Browning, Arnold, Hopkins; some attention to lesser figures. Relevant prose writings of Arnold, Mill, Ruskin, and others. Three hours of classroom work per week.

Elective for Sophomores. First semester. Omitted 1972–73. Professor Pritchard.

47. The Nineteenth Century English Novel. A course of readings in representative English novels, mainly of the nineteenth century. The books read vary from year to year from among such writers as the following: Scott, Jane Austen, the Brontës, Thackeray, Dickens, Trollope, George Eliot, Hardy, James and Conrad. Three hours of class per week.

Elective for Sophomores. First semester. Professor Cameron.

50. Twentieth Century Continental Fiction. Novels by Kafka, Mann, Gide, Sartre, Camus, Pasternak, Genet and Grass are read in this course.

Elective for Sophomores (and Freshmen with the consent of the instructor). Second semester. Omitted 1972–73. Professor DeMott.

52. Modern and Contemporary Poetry. Poets to be read include Hart Crane, Stevens, Williams, Auden, Lowell, Jarrell, and Larkin. Three hours of class per week.

Elective for Sophomores. Second semester. Professor Pritchard.

53s. Modern Poetry. A study of the poetry and relevant prose writings of Hardy, Yeats, Pound, the Georgians and Imagists, D. H. Lawrence, Frost and Eliot.

Elective for Sophomores. Second semester. Omitted 1972–73. Professor Pritchard.

54. Readings in Modern British Fiction. A study of some novels written

in the twentieth century and a consideration of the novelist's position in modern society. Thomas Hardy, Joseph Conrad, D. H. Lawrence, and James Joyce are the central figures. Three hours of classroom work per week.

Elective for Sophomores. Second semester. Professor Craig.

56. Literary History of the Great War 1914–1918. The limits of literature studied in relation to the event of war: memoir, history, fiction, poetry. The war considered as a problem in English literary history. Some modernists (Pound, Eliot, Lewis, Ford, Lawrence) read as war writers; some war writers (Carrington, Taylor, Graves, Manning, Sassoon, Owen) read as men of letters. Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). Second semester. Professor Cody.

57. English Literature Between the Wars. Developments in poetry, in the novel, and in critical-sociological writing. Among writers to be considered are Shaw, Pound, Ford Madox Ford, Eliot, D. H. Lawrence, Wyndham Lewis, Auden, Evelyn Waugh, Orwell. Three classroom hours per week.

Elective for Sophomores. Limited to twenty students, preference given to those who have had English 53 or 54. First semester. Professor Pritchard.

59. Readings in English Literature. The topic for 1972–73 will be *Utopias and Anti-Utopias:* a study of some literary expressions of the distinction between fantasy and society, ranging from More's *Utopia* and Swift's *Gulliver's Travels* to various twentieth century examples, and concluding with as much of Joyce's *Finnegans Wake* as the class can take. Two class meetings per week.

Elective for Juniors. Limited to fifteen students. First semester. Professor Craig.

60f. Readings in American Literature. An intensive study of one or more major American writers.

Elective for Juniors. First semester. Omitted 1972–73. Professor Marx.

61s. American Puritanism. The Puritan strain in American writing, including the work of Taylor, Edwards, Franklin, Hawthorne, Emily Dickinson, Henry Adams, Robert Lowell, Faulkner, James Baldwin, Norman O. Brown. Three hours of classroom per week.

Elective for Sophomores. Second semester. Professor Peterson.

62f. American Renaissance. A study of major writers of the mid-nineteenth century: Poe, Emerson, Thoreau, Hawthorne and Melville. Three hours of classroom work per week.

Elective for Sophomores. First semester. Professor Guttmann.

63s. Realism and Naturalism in American Literature. Readings in the work (among others) of Howells, Mark Twain, Henry James, E.A. Robinson, Crane, Dreiser, Hemingway, and Faulkner. Three hours of classroom work per week.

Elective for Juniors. Limited to sixty students. Second semester. Omitted 1972–73. Professors Marx and Peterson.

64f. Visionary Writers in America. The antinomian strain in American writing from Anne Hutchinson to Allen Ginsberg, including works by Emerson, Whitman, Henry James, Henry Miller, Wallace Stevens, and Norman Mailer.

Elective for Juniors. Limited to sixty students. First semester. Omitted 1972–73. Professors Marx and Peterson.

65s. American Literature: Cosmopolitans and Provincials. The tension between "European" and "native American" perspectives and techniques in the work of Henry James, Mark Twain, Stevens, Frost, Eliot, Williams, Bellow, Faulkner, and Fitzgerald.

Elective for Sophomores. Second semester. Professor Guttmann.

66f. Race and Ethnicity in American Literature. Racial, ethnic and religious commitments and concerns in American writing, including the work of Wright, Ellison, Baldwin, Henry Roth, Bellow and Mailer.

Elective for Sophomores. First semester. Omitted 1972–73. Professor Guttmann.

67. American Writers and Their Environments. A study of major American writers with an emphasis on changing conceptions of the relations between environment, society, and consciousness. Three models of interaction will be examined: the Puritan, the Enlightenment, and the Transcendental. Among the writers to be considered are Edward Taylor, Jonathan Edwards, Franklin, Jefferson, Crèvecoeur, Emerson, Thoreau, Hawthorne, Poe, and Melville. Three hours of classroom work per week.

Requisite: Enrollment in the Kenan Colloquium (See p. 188). Elective for Sophomores. Limited to fifty students. First semester. Professor Marx.

68. American Writers and Their Environments. A continuation of English 67, with special emphasis on the emergence of pastoralism, an ethos of disengagement, as a response to accelerating technological development. Among the writers to be considered are Whitman, Henry Adams, Mark Twain, Frost, Faulkner, Hemingway, Stevens, Williams, West, Bellow, Mailer, and Snyder. Three hours of classroom work per week.

Requisite: English 67 and enrollment in the Kenan Colloquium (See p. 188). Elective for Sophomores. Limited to fifty students. Second semester. Professor Marx.

69. Contemporary Cultural Studies. Topics in recent years have included "new journalism," participation theater, the anthologies war, literary and subliterary accounts of space exploration, the discovery of the black experience, pop-historical definitions of "the Sixties." Writings by Barth, Bellow, Mailer, Malcolm X, Nabokov, Pynchon, Laing, and others of recent reputation figure in the work of this course. One two-hour meeting per week.

Elective for Sophomores. Limited to fifteen students. First semester. Omitted 1972–73. Professor DeMott.

70. Tragedy. Plays by Sophocles, Shakespeare, Ibsen, Hofmannsthal, Camus, Sartre, Giraudoux, and Anouilh are read in this course. One two-hour class meeting per week.

Elective for Sophomores. Limited to fifteen students. Second semester. Omitted 1972–73. Professor DeMott.

72. Comedy. Plays by Shakespeare, Molière, Congreve, Chekhov, Ibsen, Shaw, Sartre, Ionesco, and Beckett are read in this course. Two class meetings per week.

Elective for Sophomores (and Freshmen with the consent of the instructor). Second semester. Omitted 1972–73. Professor DeMott.

73. Modern Literary Autobiography. Versions of the self in the autobiographical writings including poems, essays, and letters as well as the customary forms, by Orwell, Lawrence, Edwin Muir, J. R. Ackerley, Nabokov, Lillian Hellman, Richard Wright, Mary McCarthy, Lowell, Larkin, James McConkey, Ginsberg, and Frank Conroy. The recurrent question to be addressed is: What does it mean to be honest with oneself? Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). First semester. Professor Sofield.

74. Topics in the Novel. The topic has been "Character in the Novel." Novels by Turgenev, Dickens, Flaubert, Dostoevsky, Tolstoy, James, Proust, and others including contemporary novelists, have been read. Three meetings per week.

Elective for Sophomores (and Freshmen who have taken English 11). Second semester. Omitted 1972–73. Professor Cameron.

75. English and Education. A consideration of the place of English in general culture, and in the curricula of schools and colleges. Literary and pedagogical works will be read. One two-hour seminar a week.

Limited to fifteen Amherst College students. Students from other colleges may be admitted in addition up to seven. First semester. Omitted 1972–73. Professor Heath.

76. Junior Seminar. Intended to be of particular interest to English majors proposing to write a thesis (D77) in the following fall semester. The varieties and uses of critical writing, as conceived by a cross-section of the department.

Elective for Juniors. One two-hour seminar per week. Second semester. The teaching staff in 1972–73 will be Professors Craig (Chairman), Heath, and Sofield.

D77. Senior Tutorial. Independent work under the guidance of a tutor assigned by the department. Open to senior English majors with the consent of the department. (See 76.) Students intending to take this course should contact the Chairman of the department before the end of the preceding spring semester. First semester.

77. Senior Tutorial. This form of the regular course in independent work for seniors will be approved only in exceptional cases. First semester.

D78. Senior Tutorial. This form of the regular course in independent work for seniors (D77) will be approved only in exceptional cases. Second semester.

78. Senior Tutorial. This form of the regular course in independent work for seniors (D77) will be approved only in exceptional cases. Second semester.

97. Special Topics. Independent Reading Course. First semester.

98. Special Topics. Independent Reading Course. Second semester.

EUROPEAN STUDIES

Advisory Committee: Professors N. Birnbaum, Carre, Cody, Halsted, Kennick, Pemberton, Peppard, and White; Associate Professors Cheyette (Chairman), Chickering, and Ratté; Assistant Professors Kaplan, Kent*, Lees*, Sofield, and Weary.

European Studies is a major program which provides opportunity for interdisciplinary study of European culture. By combining work in the humanities and social sciences, it enables students to examine diverse facets

*On leave 1972–73.

of European culture and to seek those elements which give it its unity and distinctiveness.

Major Program. A major in European Studies will take European Studies 11 and 76, and six other courses, selected in consultation with his advisor, which will reflect a coherent theme of study. European Studies 11 should be taken as early as possible. In addition, all majors will read a selected number of major works in the European tradition. These will form the basis for discussions in European Studies 76. During his junior year a major will demonstrate his ability to read creative and scholarly literature in at least one foreign language appropriate to his program. A junior year abroad devoted to a course of study approved by the Committee on European Studies may substitute for part of the major requirements.

Honors Program. Same as Major Program, except that candidates for honors must elect, as part of their senior year program, European Studies 77 and D78.

11s. Introduction to European Civilization. The course attempts to introduce students to some of the diversity of the European cultural experience. Readings will include works of literature, history, philosophy, religion, and political theory. In 1972–73, the course will examine aspects of European culture during the eighteenth century and their relation to the European tradition.

Limited to fifteen students. Second semester. Professor Weary and members of the Committee.

Attention is directed to the following Colloquia in the European field:

Colloquium: Literature, Art and Society in Renaissance Italy. See Colloquia, p. 186.

Elective for Juniors. Admission by consent of the instructors. Second semester. Professors Cheyette and Chickering.

Colloquium in Economics and History: Historical Problems and Economic Analysis. See Colloquia, p. 186.

Limited to twenty-five students. Admission by permission of the instructors. Second semester. Professors Aitken and Halsted.

76. Readings in the European Tradition. Reading and discussion of a selected number of important works in the European tradition. One class meeting per week.

Second semester. Professor Cheyette (Coordinator) and members of the Committee.

77 and D78. Senior Honors Course. Preparation of an honors thesis. A single and a double course.

Elective for Seniors with the consent of the Committee on European Studies. First and second semesters.

FINE ARTS

Professors Schmalz‡ and Trapp (Chairman); Visiting Artist William Utermohlen; Assistant Professors Kirwin, Oxman, and Upton and Visiting Lecturer Sweeney; Visiting Lecturer Arnold.

Major Program. A major in fine arts consists of eight full courses in fine arts, one of which must (normally) be 11 or 11s and one in studio work; and a comprehensive examination. Additional work in studio beyond the 15 level may also count toward fulfillment of the major requirements. A *rite* major may by departmental permission elect a 77–78 program of individual work as a senior. Depending on the individual student's objectives, a limited number of courses in other departments may, with departmental approval, be accepted in partial fulfillment of the major requirement.

Honors Program. Honors in fine arts shall consist of eight full courses in fine arts, as above, plus Fine Arts 77–78, and a comprehensive examination. Normally, as a minimum, either Fine Arts 47 or Fine Arts 48 will be included in the student's elections within the Department. Note: A certain amount of work at the neighboring institutions is acceptable, at the discretion of the Department, for fulfillment of the major program.

11. Introduction to the History of Art. The development of the major arts from the earliest times to the present, with special emphasis on the formal and historical relationships among styles in western arts. Three hours per week.

Elective for Freshmen. First semester. Professor Schmalz.

11s. Introduction to the History of Art. The development of the major arts in the western tradition, with special emphasis on the relationship between visual arts and the culture that produced them, as well as an examination of the formal relationships between the several visual arts.

Elective for Freshmen. Second semester. Professor Trapp.

‡On leave second semester 1972–73.

15. Introductory Studio. An introduction to the basic principles of art through the study of the visual vocabulary. Studio experiments with a variety of art media. Projects in two and three dimensions. Two two-hour class periods per week, plus outside assignments. No prior studio experience is required or special talent expected.

Elective for Freshmen. Limited to fifty students. First semester. Professor Oxman.

15s. Introductory Studio. Same course description as Fine Arts 15.

Elective for Freshmen. Limited to fifty students. Second semester. Professor Oxman.

17. Figure Drawing. A series of exercises to introduce fundamental representational problems in drawing, especially of the human figure, and to develop the student's knowledge and skill in the techniques and uses of drawing.

Elective for Freshmen. First semester. Mr. Utermohlen.

17s. Figure Drawing. Same course description as Fine Arts 17.

Elective for Freshmen. Second semester. Mr. Utermohlen.

19. Basic Oil Painting. A set of studio projects to explore fundamental techniques in oil painting, with emphasis on figurative composition.

Elective for Freshmen. First semester. Mr. Sweeney.

19s. Basic Oil Painting. Same course description as Fine Arts 19.

Elective for Freshmen. Second semester. Mr. Sweeney.

22. Three-Dimensional Design. Examination of three-dimensional and structural concepts. Organization of space developed through constructions in a variety of materials. Two two-hour class periods per week.

Elective for Sophomores and Freshmen. Limited to thirty students. Second semester. Professor Oxman.

23. Introductory Sculpture. A studio course designed to explore the basic principles of sculpture. Life and portrait modeling preparatory to individual creation. Aesthetic analysis of works of sculpture.

Limited to twenty-five students. First semester. Professor Oxman.

25. Introductory Serigraphy. A series of problems designed to provide students with practice in the several basic techniques of silk screen printing, and to acquaint them with its varied possibilities for original creative expression. Contemporary idioms will be emphasized. Two two-hour studio periods per week, plus additional studio time.

Requisite: Fine Arts 15, 22, or consent of the instructor. Limited to twenty-five students. Elective for Sophomores. First semester. Professor Schmalz.

27. Visiting Artist's Studio. The general tone and character of the course will be determined by the visiting artist. The specific problems and their sequence will be established with the interests of both the visting artist and his individual students in view. Two afternoon meetings per week plus outside work.

Limited to thirty students with consent of the visiting artist. First semester. Mr. Utermohlen.

28. Visiting Artist's Studio. Same course description as Fine Arts 27.

Limited to thirty students with consent of the visiting artist. Second semester. Mr. Utermohlen.

29. Photographic Vision and Design. An introduction to the camera as an artistic means based on a series of studio problems in light, motion, optical control, visual selectivity and photographic composition. Special projects will be arranged for those students who have had prior experience in photography. Two afternoon meetings per week plus outside assignments.

First semester. Mr. Arnold.

29s. Photographic Vision and Design. Same course description as Fine Arts 29.

Second semester. Mr. Arnold.

30. Ancient Arts. A comparative study of the emergence, development and diffusion of artistic styles in the East and the West from pre-historic times to the early Christian era. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s, or permission of the instructor. Elective for Sophomores. Second semester. Professor Kirwin.

31. Themes in Early Mediaeval Art. A discussion of Christian visual expression from the fourth to the ninth century, from Constantine to Charlemagne.

Requisite: Fine Arts 11 or 11s or permission of the instructor. Elective for Sophomores. First semester. Professor Upton.

32. The Gothic Age. A selective examination of French art of the twelfth and thirteenth centuries, with special emphasis on the construction and sculptural decoration of the major churches from the Abbey of St. Denis to the cathedrals of Chartres, Laon, Paris, Reims, Amiens and Beauvais, including some historical, social and religious aspects of Gothic life.

Requisite: Fine Arts 11 or 11s, or consent of the instructor. Elective for Sophomores. Second semester. Professor Upton.

33. Renaissance Art. A selective examination of the form and content of European art from the early 15th to the end of the 16th centuries, with emphasis upon the major artists of Italy. Four hours of classroom work per week.

Requisite: Fine Arts 11 or 11s, or permission of the instructor. Elective for Sophomores. Second semester. Professor Kirwin.

34. Baroque and Rococo Art. A study of major figures and movements in European art of the seventeenth and eighteenth centuries, emphasizing architectural development. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s or permission of the instructor. Elective for Sophomores. Second semester. Professor Kirwin.

35. Northern Renaissance Art. A study of the art of the Low Countries, France and Germany from the late fourteenth century to the beginning of the sixteenth century, with special emphasis on the Flemish painters from Jan van Eyck to Gerard David.

Requisite: Fine Arts 11 or 11s, or consent of the instructor. Elective for Sophomores. First semester. Professor Upton.

37s. The Origins of the Modern Movement. A selective examination of developments in European painting from Neo-Classicism to Impressionism, with emphasis on problems in criticism. One seminar meeting per week. Outside reading and written assignments.

Requisite: Fine Arts 11 or 11s, or permission of the instructor. Elective for Sophomores. Second semester. Professor Trapp.

38f. American Art. American architecture, sculpture and painting in America from the seventeenth century to the present day. Three hours of classroom work per week.

Elective for Sophomores. First semester. Omitted 1972–73.

39. Modern Art. A selective examination of major figures and movements in the development of modern art from Post-Impressionism to the present. Two meetings per week.

Requisite: Fine Arts 11 or 11s or permission of the instructor. Elective for Sophomores. First semester. Professor Trapp.

40. History of the City. An investigation of the development and historical importance of cities, especially from the Renaissance to the present day. The analytical technique and literature of art history will be used. Emphasis will be placed upon the forms of city plans and of urban architecture in their relationship to cultural, historical, and environmental factors. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s; or any College-level History course. Second semester. Omitted 1972-73.

47s. **Problems in Criticism and Connoisseurship.** A study of art criticism within historical contexts intended to sharpen visual perception, establish critical standards, and clarify visual judgments. The course will concentrate on architecture and on modern examples from all the visual arts. Four hours of classroom work per week. With permission of the instructor, this course may be repeated for credit.

Requisite: Fine Arts 11 or 11s plus one other course in art history, or permission of the instructor. Elective for Juniors. Second semester. Professor Kirwin.

48. **Topics in Art History.** A critical examination of a variety of historical literature dealing with painting, sculpture and architecture. The chief aim of the course is to provide a deeper understanding of the methods, purpose and meaning of art history. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s plus one other course in art history, or permission of the instructor. Elective for Juniors. Second semester. Professor Upton.

77, D77; 78, D78. **Conference Course.** Senior Honors. Preparation of an honors thesis or completion of a studio project.

The student shall with the consent of the Department elect to carry one semester of his honors work as a double course weighted in accordance with the demands of his particular project. Elective for Seniors with the consent of the Department. First and second semesters.

97, H97, 98, H98. **Special Studies for Student Majoring in Fine Arts.**

Full or half course. First and second semesters. The Department.

French See page 171.

GEOLOGY

Professors Brophy (Chairman) and Foose*; Associate Professor Belt*; Assistant Professor Kuntz and Visiting Assistant Professors Barbara Molnia and Bruce Molnia.

Major Program. Course requirements for majoring in geology generally include Geology 11, 21, 32, 34, 41, and 51. (Students with adequate background may be excused from Geology 11.) In addition, each major is encouraged to engage in at least one semester of independent study and

*On leave 1972–73.

research and write a senior thesis. Majors should plan a program to include courses in mathematics, chemistry, physics and/or biology, depending upon their specific interests, preparation and abilities within the field of geology and related sciences.

Students contemplating a major in geology, or whose interests are directed towards geochemistry, geophysics or oceanography, should discuss their interests with the staff as early as possible, in order to elect a proper program of study.

Early in the second semester of the senior year, each major shall take a comprehensive examination, both written and oral. Part I will encompass those subjects considered to form the basic body of knowledge in the science. Part II will include questions that synthesize geologic knowledge or deal specifically with the major interest of the student. Part III will be an oral examination by the staff.

Students proceeding to graduate school should take the Graduate Record Examination early in their senior year and should be aware that some graduate schools require reading proficiency in two languages (usually French, German, or Russian), and attendance at an accredited summer field camp in geology.

Honors Program. For a degree with honors, a student must have demonstrated ability to pursue independent work fruitfully and exhibit a strong motivation to engage in research. A thesis subject should be chosen in the junior year and must be chosen within the first two weeks of the senior year. Geology 77, 78 involves independent research in the field or the laboratory that must be reported in a dissertation of high quality, due in April of the senior year.

Unless otherwise specified, all courses are open to any student having requisite experience.

11. Principles of Geology. Study of the earth and its inhabitants throughout time from the record preserved in the rocks. Review of the processes that denude the earth's land surface (destructional) and those that enlarge the earth's land surfaces (constructional); the origin and distribution of landforms of North America; origin, distribution, and use of natural resources; geologic principles applied to law, engineering, architecture, urban development and industrialization. In this course students may elect either to write a term paper or participate in a laboratory program. One all day field trip.

First semester. Professor Brophy and Staff.

11s. Principles of Geology. Same course description as Geology 11.

Second semester. Professors Brophy and Kuntz.

Colloquium in Modern Experimental Science. See Colloquia, p. 184.

Requisite: Permission of the course chairman. Elective for Juniors and

Seniors who have completed at least three semester courses toward a major in biology, chemistry, geology or physics. Limited to fifteen students. Second semester. Professors Benson (Chairman), Brophy, Fisher, Godchaux, Hove, Kuntz, Tinker, Valberg, and Waggoner.

21. Mineralogy. The crystallography and crystal chemistry of naturally occurring inorganic compounds (minerals). The identification, origin, distribution and use of minerals. Laboratory work includes mineral synthesis, X-ray diffraction, emission spectroscopy, differential thermal analysis. Three hours lecture, one hour directed laboratory.

Requisite: Geology 11 or permission of the instructor. First semester. Professor Brophy.

22. Geology of the Ocean Basins. Origin of the ocean basins, their depth, shape and configuration; hypotheses of sea-floor spreading and plate tectonics; environments of deposition on the shelf, slope, rise, and abyssal plain; beach and nearshore processes; tides, waves, and currents; dynamics of physical, chemical, and organic changes in the oceans. Three hours class and three hours laboratory, field or seminar each week.

Requisite: Geology 11 or permission of the instructor. Second semester. Professor Bruce Molnia.

23. Geomorphology and Environmental Geology. The application of geologic principles to a study of water resources, disposal of solid and liquid pollutants, beach erosion, and flood control. Evaluation of natural and man-made factors causing landslides and earthquakes; geologic factors critical to man-made structures, and man's influence on estuaries. Three hours class and three hours laboratory (or field) each week.

Requisite: Geology 11 or permission of the instructor. First semester. Professor Barbara Molnia.

H25. Optical Mineralogy. The optical properties of isotropic, uniaxial and biaxial minerals in polarized light. Diagnostic optical properties and recognition of the common rock-forming minerals in thin section. Three hours combined laboratory-lecture per week. A half course.

Requisite: Geology 11, or concurrent with Geology 21. First semester. Professor Brophy.

32. Igneous and Metamorphic Petrology. A study of igneous and metamorphic processes and environments. Application of chemical principles and experimental data to igneous and metamorphic rocks is stressed. Identification, analysis, and mapping of rocks in laboratory and field. Three hours class and four hours laboratory per week.

Requisite: Geology 21 and Geology H25. Second semester. Professor Kuntz.

34f. Sedimentology. A study of modern sediments and sedimentary environments as used for interpreting depositional environments of sedimentary rocks. Emphasis is placed on basic research reports on transportation and dispersal, deposition and primary structures, post-depositional processes and diagenesis. Tectonic framework of sedimentary basins and sedimentary models. Laboratory concentrates on thin sections of sedimentary rocks. Three hours class and three hours laboratory each week.

Requisite: Geology 11. First semester. Professor Bruce Molnia.

41. Structural Geology. Analytical study of the mechanics and modes of rock deformation. Analysis and interpretation of geologic structures and their geometry. Causes of deformation and tectonic processes are studied through analysis of mantle processes and plate tectonics. Three hours class and four hours laboratory each week.

Requisite: Geology 11, Geology 32 recommended. First semester. Professor Kuntz.

42. Paleontology. An introduction to invertebrate and vertebrate fossil organisms, their evolution and paleoecologic significance. After a brief study of basic morphology, the student reads key research reports on ontogenetic variation, taxonomic categories, population dynamics, phyletic trends, and paleoecology. Laboratory alternates between seminars on the reading and practical study of invertebrate specimens. Three hours class and three hours laboratory each week. Offered in alternate years.

Requisite: Geology 11 or Biology 32. Second semester. Professor Bruce Molnia.

43s. Geochemistry. The application of chemical principles to geologic processes and equilibria in water and the aqueous environment. Basic theories of thermodynamics, equilibrium and mineral stability are used to construct chemical models for such processes as weathering, mineral reactions in surface waters, and the chemical-mass balance of the oceans. Three hours class and three hours laboratory each week.

Requisite: Geology 11 and Chemistry 11 or permission of the instructor. Second semester. Professor Kuntz.

45s. Vertebrate Paleontology. The evolution of vertebrates as shown by the study of fossils and the relationship of environment to evolution. Three hours class and four hours laboratory work each week.

Requisite: Geology 11 or Biology 32. Second semester. Professor Barbara Molnia.

46. Economic Geology. Origin, occurrence, distribution, uses, and production of mineral fuels, metalliferous minerals (ore deposits), and industrial minerals (non-metallics). Laboratory devoted to studies of important mining districts, examination of raw materials and their geologic relations, and to

a solution of geologic problems related to their occurrence. Three hours class and four hours laboratory each week. Offered in alternate years.

Requisite: Geology 32 and 41. Second semester. Omitted 1972–73. Professors Brophy and Foose.

48. Geophysics. Application of the physical principles of gravity, magnetism, electricity, and seismic and sonic wave propagation to the interpretation of rock types and structure of the earth's crust. Principles of geophysical exploration and the interpretation of geophysical data. Three hours class and three hours laboratory each week. Offered in alternate years.

Requisite: Geology 11 and Physics 14, or permission of the instructor. Second semester. Professor Verosub.

51. History and Dynamics of the Crust and Mantle. Through the mechanism of lectures, seminars, field study and independent research dealing both with major areas of the globe and with fundamental processes (such as pluton emplacement and crustal movement) the origin and development of the crust and mantle will be explored. Three hours class, two hours laboratory (or field), and one hour seminar each week.

Requisite: Geology 41. First semester. Professor Bruce Molnia and Staff.

77, 78. Geology Honors. Independent research on a geologic problem within any area of staff competence. A dissertation of high quality will be required.

Elective for seniors who meet the requirements of the honors program. First and second semesters. The Staff.

97, H97, 98, H98. Special Topics. Independent reading or research. A written report will be required. Full or half courses.

Approval of the departmental chairman is required. First and second semesters. The Staff.

GERMAN

Professors Peppard (Chairman) and White; Mrs. Davidson.

Major Program. The major must include the following courses: German 10, 11, 21, 23, 24, 26, 38 or 40, 97 or 98.

A major in German will take a written or oral examination in the seventh week of the second semester of his senior year. A reading list will be provided to aid in the preparation for this examination.

Honors Program. In addition to the courses required for a *rite* major, candidates for honors must complete German 77, 78, and must present a thesis. They are urged to study an ancient or one other modern foreign language.

The aim of honors work in German is to offer the candidate the opportunity (a) to explore a chosen field or fields through a more extensive program of readings than is possible in course work; (b) to organize material for himself along historical or analytical lines, usually in the form of a thesis or essay; (c) to acquire a general view of the history and development of German literature or language.

Each candidate will present a thesis or essay on an approved topic. It may deal critically with the work of a specific author; it may treat the development of an idea in historical form; it may be a study of some particular literary form.

Each candidate will take a written general examination on the history of German literature, which will also include questions in his chosen field. The result of this examination together with the excellence of the thesis or essay will determine the degree of honors for which the Department will recommend the candidate.

1. Elementary Course. Grammar, pronunciation, oral practice. Three hours per week for explanation and demonstration and three hours per week in the language laboratory for oral practice.

Elective for Freshmen. First semester. Mrs. Davidson.

3s. Intermediate Course. A continuation of German 1. Practice in reading selected texts. Three hours per week of demonstration and explanation, and three hours per week in sections for oral practice.

Requisite: A satisfactory grade in German 1. Second semester. Mrs. Davidson.

5. Advanced Course. Reading and analysis of selected texts. Three hours per week for demonstration and explanation, and three hours per week in small sections for oral practice and discussion. Stress will be placed on comprehension of the spoken language and oral drill. Conducted in German.

Requisite: A satisfactory score in the CEEB Achievement Test. Elective for Freshmen. First semester. Professor Peppard.

Freshmen will be assigned to German 1, or German 5 on the basis of the score in the CEEB Achievement Test and previous training. Part of the drill in these courses will be in the language laboratory.

10. Advanced Composition and Conversation. Practice in free composition in German. Exercises in pronunciation and idiomatic conversation, with supplementary practice in the language laboratory. Oral reports on selected topics. Conducted in German. Three hours per week. Offered in alternate years.

Requisite: Consent of the instructor. Elective for Sophomores. Second semester. Professor White.

11. Introduction to German Literature. Reading and discussion of selected literary texts. This course will be conducted in German. Three hours of classroom work per week.

Requisite: Satisfaction of the language requirement. Elective for Freshmen. First semester. Professor White.

11s. Introduction to German Literature. Same course description as German 11.

Requisite: Satisfaction of the language requirement, including satisfaction of the requirement at the end of the first semester. Elective for Freshmen. Second semester. Professor White.

21. German Literature of the Eighteenth Century. An exploration of writing and the fine arts in eighteenth-century Germany, with emphasis on drama, fiction, essays, and the interaction of music and language. Selected readings in Gottsched, Winckelmann, Lessing, the younger Goethe, and others. Listening assignments in J. S. Bach, Mozart, and Haydn. Conducted in German. Three hours discussion per week, with occasional outside listening assignments.

Requisite: German 11 or permission of the instructor. Elective for Freshmen. First semester. Professor White.

23. Goethe's Faust. *Faust*, Parts I and II. A study of the Faust legend, lectures, and assigned readings. Conducted in German. Three hours per week.

Requisite: German 11. Elective for Freshmen. First semester. Professor Peppard.

24. German Romanticism. Studies in the Romantic movement in Germany, with readings from Tieck, F. Schlegel, Brentano, Kleist, Hoffmann, and Heine. Lectures and discussion. Three hours per week. Conducted in German. To alternate with German 26.

Requisite: German 11. Elective for Freshmen. Second semester. Professor Peppard.

26. German Literature from Romanticism to the Turn of the Century. The development of German literature from the death of Goethe through the period of Naturalism. Selected readings, lectures, and discussion. Conducted in German. Three hours per week. To alternate with German 24.

Requisite: German 11. Elective for Freshmen. Second semester. Omitted 1972–73.

Germany Between the Two World Wars. See Colloquia, p. 186.

Requisite: Written consent of the instructor. Limited to twenty students. Second semester. Omitted 1972–73. Professors Lees and White.

35. Studies in Twentieth Century Prose. Readings in major writers such as Thomas Mann, Franz Kafka, and Hermann Hesse. Conducted in English. Students may read in the original or in translation according to their command of the language. Three hours per week. To alternate with German 37.

Elective for Sophomores. First semester. Omitted 1972–73.

37. German Literature in Translation. Selected works of German literature in a rapid survey from the medieval period to the present. Readings in the original may be assigned for those with sufficient command of the language. Three hours per week. To alternate with German 35.

Elective for Juniors. First semester. Professor White.

38. German Drama of the Twentieth Century. Studies in German drama of the period with emphasis on the Expressionists. Brecht, and post-World War II dramatists. Three hours per week. Conducted in German. To alternate with German 40.

Requisite: German 11. Elective for Juniors. Second semester. Omitted 1972–73.

40. German Poetry of the Twentieth Century. Interpretation of German verse of the period, with emphasis on George, Rilke, Hofmannsthal, the Expressionists, and post-World War II poets. Three hours per week. Conducted in German. To alternate with German 38.

Requisite: German 11. Elective for Juniors. Second semester. Professor White.

50. Introduction to Linguistics. A general introduction to structural and transformational linguistics. One two-hour seminar per week.

Elective for Juniors, with consent of the instructor. Second semester. Professor Peppard.

77, 78. Honors Course for Seniors.

First and second semesters. The Department.

97. Special Topics. Independent Reading Course.

First semester. The Department.

98. Special Topics. Independent Reading Course.

Second semester. The Department.

Greek. See page 95.

AMHERST COLLEGE

HISTORY

Professors Davis, Gifford, Greene, Halsted, Hawkins, Rozwenc, and Ward; Associate Professors Cheyette, Czap, Levin,* Petropulos (Chairman), Moore,* and Ratté; Assistant Professors Lees,* E. Ryerson, and Weary, Visiting Assistant Professor Keenan, and Visiting Lecturer E. Viotti da Costa. Professor Emeritus Henry Steele Commager, Simpson Lecturer in History.

Major Program. Eight courses are required for a history major. One of these must be History 12, which a student majoring in the department is urged to take during the freshman or sophomore year. The other seven courses may include History 11, one or two semester courses of research culminating in a piece of historical writing, as well as any other departmental course offerings; extra-departmental Amherst College courses which are cross-listed under the history rubric of the catalog; and history courses offered by the four sister institutions. In making his selection, however, the student is expected to take courses in at least two of the following geographically-defined areas: Western Europe, Eastern Europe, the United States and Canada, Latin America, Africa, the Middle East, and East Asia, and should focus in considerable depth on a primary field of interest, geographical, chronological, or topical, which he will define in consultation with his departmental advisor. A student, by the middle of his last semester, will be expected to demonstrate to an evaluating committee of the faculty a comprehensive knowledge of his field of primary interest. The mode of the evaluation need not be the same for all the majors within the department, and, indeed, may be designed individually to test the skills each student has developed.

Honors Program. In addition to the two research courses which a student may take as two of his eight required courses, he may, with the approval of the department, take as many as three more semester courses of independent research. The maximum total of five research courses may be spread throughout the junior and senior years, or they may be concentrated within the senior year alone, with as many as three such courses in a single semester. If a student wishes to be considered for the degree with honors, he will present a substantial essay or cluster of related essays which he has worked on during his research course(s). Normally, the level of honors recommended by the department will also depend on the over-all calibre of a student's work in the major.

Unless otherwise specified, all courses are open to freshmen.

11s. Introduction to History: World-historical Studies. The course introduces students to historical studies by concentrating on a major problem in world history which is treated on comparative and cross-cultural lines.

*On leave 1972–73.

The topic for 1972–73 is the interaction of European and African peoples before, during, and after the period of imperial conquest and colonial rule. Particular attention will be given to Nigeria, Ethopia, and Algeria, and to the origins and repercussions of the imperial impulse in England and France. Sections and lectures.

Second semester. Professors Davis, Gifford, Petropulos, Ratté, and Rozwenc.

12f. Introduction to Historical Study. The second of the Department's introductory courses aims at providing instruction in the reading of history. The course centers upon a classic work of historical literature which treats an important era of history and which is especially suited to reveal the characteristics of the historian's task.

In 1972–73, the work will be Marc Bloch's *French Rural History.* The book is first studied in relation to the life and times of its author and the founding of the "*Annales* school" of historical writing. The greater portion of the course is then devoted to several significant problems raised by this book concerning the historical study of nonliterate societies and to the ways in which historians have responded to these problems.

Required of all majors. Majors and prospective majors are advised to take this course as early as possible. First semester. Professors Cheyette, Czap, and Weary.

21. The Development of European Society I. Introduction to some of the major themes of western European history, from the fall of Rome through the late seventeenth century. Special attention will be paid to the ways in which westerners have conceived of this part of their past.

First semester. Professor Weary.

22. The Development of European Society II. Europe from the early eighteenth century to 1900: the Old Regime and its enlightened critics; the political and economic revolutions in France and England; the emergence of new nation states; liberalism, socialism, and imperialism.

Second semester. Professor Halsted.

Colloquium in Literature, Art and Society in Renaissance Italy. See Colloquia, p. 186.

Elective for Juniors. Admission by written consent of the instructors. Second semester. Professors Cheyette and Chickering.

23. Europe and the World in the Twentieth Century. Lectures survey relations among governments in war and peace as they have been shaped by social and political transformations within nations. Readings for discussion focus on the relationship between contemporary global and European history; the transformation of European society from 1890 to the Versailles

settlement; the rise of fascism; the diplomacy of the Second World War; communism, democracy and the intellectuals in the 1930s and 1950s; the impact of bipolarity, the loss of colonies, and the extension of the social service state in the 1950s and 1960s. Lectures and sections.

First semester. Professor Ratté.

25. Medieval Society. An introduction to medieval European society. Readings and discussion on selected topics of institutional and social history, concentrating on the eleventh and twelfth centuries. Two one-and-one-half hour class meetings per week.

First semester. Professor Cheyette.

26. Medieval Society. A continuation of History 25 dealing with the thirteenth and fourteenth centuries.

Second semester. Omitted 1972–73. Professor Cheyette.

28. The European Mind: Abelard to Luther. A seminar concentrating on one or two major themes of European thought in the Middle Ages. In 1973, the topic will be heresy and witchcraft in the Middle Ages. After a consideration of relevant sociological and anthropological theories of religion and witchcraft, the course will examine records of the Inquisition and of witchcraft trials. One meeting per week. To be offered at Mount Holyoke College.

Requisite: History 25, 26, or Religion 16, or Anthropology 31, or consent of the instructor. Second semester. Professor Cheyette.

30. Early Modern Europe. An examination of the French Revolution in the context of European constitutional crises of the sixteenth through eighteenth centuries. After a close study of the opening years of the French Revolution, the course will move backwards through time to a consideration of the French parliamentary crisis of 1765, the English Civil Wars, the Revolt of the Catalans, the Fronde, French peasant uprisings, the Revolt of the Netherlands, the French Wars of Religion, and the Revolt of the Comuneros. Throughout the course stress will be placed upon the similarities between these crises, and upon the fundamental constitutional arrangements of early modern government.

Second semester. Professor Weary.

Germany Between the Two World Wars. See Colloquia, p. 186.

Requisite: Written consent of the instructors. Limited to twenty students. Second semester. Omitted 1972–73. Professors Lees and White.

31. Modern Germany. A general survey of the nineteenth and twentieth centuries, with emphasis on themes such as the following: the social and intellectual impact and challenge of revolutionary France, the origins of

liberalism and nationalism, the effects of industrialization, social and ideological tensions in the Second Empire, expansionism and the military elite, the Weimar experiment in democracy, fascism and the structure of Nazi power, and reconstruction after World War II. Use will be made of visual materials and of original sources in English translation.

First semester. Omitted 1972–73. Professor Lees.

32. European Thought in the Nineteenth Century. Dominant currents in the history of ideas viewed in their social context, from the Enlightenment to the intellectual background of the First World War.

Second semester. Omitted 1972–73. Professor Halsted.

Colloquium in Economics and History: Historical Problems and Economic Analysis. See Colloquia, p. 186.

Limited to twenty-five students. Admission by written permission of the instructors. Second semester. Professors Aitken and Halsted.

33. Europe in the Nineteenth Century. Social and political movements in Western Europe from 1789 to 1914. Topics treated will include: the liberal and nationalist revolutionary outbreaks of 1848; Utopian and Marxian socialism; Italian unification, and the Paris Commune.

First semester. Professor Halsted.

35. Victorian England. The seminar will treat aspects of the culture of nineteenth century England through the works of its great social critics, political and social theorists, novelists, and poets, as well as through major historical studies. One class meeting per week. To be offered at Mount Holyoke College.

First semester. Professor Halsted.

38. Topics in Contemporary Intellectual History. The course considers movements of ideas and the works of individual thinkers in relationship to social change and changes in specific intellectual disciplines. In 1973, discussion will focus on the notion of the decline of the West as a theme in some major works of twentieth century social theorists. Works by Freud, Weber, Lévi-Strauss, Sartre, Lukacs, and Weil. Lectures and sections.

Second semester. Professor Ratté.

40. Modern Greece. An examination of Greek society from 1204 to the present, with stress on the Byzantine and classical legacies, as well as Ottoman Turkish rule and westernization, as basic components in the emergence of a modern Greek nation. Greece will be considered in the context of the modernization process. The concurrent and conflicting modern Greek traditions of democracy and autocracy will be studied in an attempt to understand the current political situation in Greece.

Second semester. Omitted 1972–73. Professor Petropulos.

41. Russia. A History of Russia until approximately 1900. Kievan, Muscovite and Imperial Russian in the context of Slavic European civilization; the development of social and political institutions, including serfdom and bureaucratic absolutism. Readings, lectures and discussions.

First semester. Professor Czap.

42. Russia. A History of Late Imperial and Soviet Russia. Russia during the period of industrialization and constitutional monarchy; the revolutions of 1917; the reestablishment of social order and the development of Russian society under the Communist Party through the post-World War II years. Reading, lectures and discussions. To be offered at Smith College.

Second semester. Professor Czap.

44. Topics in Russian History. The seminar will consider dominant themes in Russian social radicalism of the nineteenth century.

Admission by consent of the instructor. Second semester. Professor Czap.

45. Modern East Asia and the West. Lectures, readings and class discussion of problems arising from the impact of Western military technology, science and political philosophy on China, Japan and Korea since 1800. Special attention is given to differences in China's and Japan's attempts to modernize.

First semester. Omitted 1972–73. Professor Moore.

46. Modern China. A survey of political, social and economic developments as China moved from traditional Confucian society to revolutionary "Maoist" society. Lectures, readings and discussions will treat traditional society, and the Nationalist and Communist revolutions. Alternates with History 48.

Second semester. Omitted 1972–73. Professor Moore.

48. Modern Japan. An introduction to Japan's political and intellectual responses to the threat of the West since 1800. Lectures, readings and discussions will focus on late Tokugawa society, the Meiji Restoration and beginning of modernization, the growth of nationalism and the Pacific War, the American occupation and recovery of national independence in the cold war. Alternates with History 46.

Second semester. Omitted 1972–73. Professor Moore.

49. Topics in East Asian History. The course explores one broad topic through readings, discussions and papers. One two-hour session per week.

Requisite: History 45 or equivalent, or consent of the instructor. First semester. Omitted 1972–73. Professor Moore.

50. Modern Chinese Intellectual History. Using biographies and autobiographies of leading intellectuals, this course will investigate the transforma-

tion of the Chinese intelligentsia in the nineteenth and twentieth centuries. Particular emphasis will be placed on the redefinition of the Confucian literati as they lost their unique combination of achievement in learning and political power at the turn of the century. The consequences of this redefinition will be traced through the Marxist revolution of 1949. Representative figures will be chosen from the following fields: politics, education, science, and literature. One seminar meeting weekly.

Requisite: Consent of the instructor. Second semester. Professor Keenan.

51. The Middle East. From the birth of Islam in the seventh century A.D. to 1300. Special emphasis will be placed on the nature of Islamic society and thought, the formation of an Islamic civilization, and the interaction of Arabs, Persians, and Turks.

First semester. Professor Petropulos.

52. The Middle East. From the rise of the Ottoman Turks around 1300 and the formation of the Ottoman empire to the emergence of successor nation-states in the twentieth century. Topics receiving special emphasis: changes in the nature of Ottoman state and society, the impact of the West and alternative reform and modernization efforts, the contrasting experiences of Arabs and Turks, before and after World War I, the Palestine problem and the creation of Israel.

Second semester. Omitted 1972–73. Professor Petropulos.

53. The History of Israel. This course will consider aspects of the Jewish experience in modern Europe; the origins and development of Zionism in Europe, America and Palestine before 1939; the Holocaust and the creation of the state of Israel; and the political, social and diplomatic history of Israel since 1948. One seminar session per week.

Admission by written consent of the instructor. First semester. Omitted 1972–73. Professor Levin.

54. Topics on the Middle East. Each year the course will focus on a single topic of broad range. Papers and discussion. One two-hour session per week. When the topic changes, the course may again be taken for credit.

Topic for 1973: Modern Egypt from the end of the eighteenth century to the early 1970s, with special emphasis on political, socio-economic, and intellectual developments, British imperialism and the Egyptian struggle against it, and the post-World War II role of Egypt in Arab regional and world politics.

Admission by consent of the instructor. Second semester. Professor Petropulos.

55. The History of American Society. An examination of the relationship between values and institutions in the formation of the American social system. Particular attention will be given to the complex interaction between

the forces of social cohesion and social conflict as a way of understanding the movement of American society toward social disequilibration and civil war.

First semester. Professor Rozwenc.

56. The History of American Society. An examination of the transformation of American values and institutions in response to the industrializing process. Particular attention will be given to social conflicts caused by the strains of rapid social change and their relationship to conflicts in world politics.

Second semester. Professor Rozwenc.

57s. Seminar in Southern History. Selected topics, with emphasis on the forces that have affected Southern particularism. In 1972–73, the course will treat the antebellum South, the period of the Confederacy, and Reconstruction. One two-hour and one one-hour meeting weekly.

Limited to fifteen students. Second semester. Professor Hawkins.

58. The Progressive Generation. A study of the responses to change made by Americans in the generation from 1890 to 1920. By concentrating upon a single generation the course will explore some of the interrelations among politics, literature, business, the professions, religion, and popular culture. One seminar meeting weekly.

Limited to fifteen students. Second semester. Professor Greene.

59. America in the Sixties. A study of the dominant political culture (Kennedy's New Frontier and Johnson's Great Society) and the making of a counter culture (the drug culture, black militancy, the anti-Vietnam War protest, student revolts, the "New Left," Women's Liberation, etc.) Colloquium and independent study.

Admission by consent of instructor. First semester. Professor Rozwenc.

60. Radicals and Reformers in the New Deal Era. An examination of the patterns of protest and reform that emerged in American society during the crisis of the 1930's.

Limited to fifteen students. Second semester. Omitted 1972–73. Professor Rozwenc.

61. Community and Individualism in Early America. A study of the tensions between liberal individualism and the bonds of community in the development of American society. The course will focus on tensions within the Puritan communities of New England, the Quaker's "Holy Experiment," the semi-aristocratic society of Virginia, and the experience of the American Revolution.

First semester. Professor Greene.

62. American Diplomatic History. The history of American foreign relations in the twentieth century. After a very brief introductory consideration of the

origins of the American diplomatic tradition, this course will focus in depth on the evolution of America's role in world politics from the late nineteenth century to the present.

Second semester. Omitted 1972–73. Professor Levin.

63. Conference Course in American Intellectual History. This course will investigate the concept of national character and will involve reading significant works in American and foreign literature that appear to illuminate that subject. Limited to two sections.

Open to Juniors and Seniors with permission of instructor. First semester. Professor Commager.

64. Law and Social Reform. An examination of some of the achievements and limitations of the legal process as a tool of late nineteenth and early twentieth century reformers. Readings in the philosophy of law, sociological jurisprudence, the legislative and judicial processes and case studies selected from such areas as the treatment of criminals, the labor movement, and women's rights. One one-hour and one two-hour meeting per week.

Limited to fifteen students. Second semester. Professor E. Ryerson.

66. Seminar in American Educational History. Selected topics from the colonial period to the present with emphasis on tensions between autonomous institutional standards and the needs and ideals of the general society. One two-hour meeting weekly.

Limited to fifteen students. Second semester. Omitted 1972–73. Professor Hawkins.

67. Race in American History. The course explores thought about race and institutions based on race within the context of American cultural development. Emphasis is on racial orientations of the dominant society rather than experience within various ethnic subsocieties. One one-hour and one two-hour meeting weekly.

Limited to twenty-five students. To alternate with History 64. First semester. Omitted 1972–73. Professor Hawkins.

68. Latin America since Independence. Analysis of its political, economic, and social history.

Second semester. Professor da Costa.

69. African History to 1880. A general history of Africa from the Axumite, Nubian and Nile Valley Kingdoms to the nineteenth century. Attention will be given in the lectures to migrational patterns and the emergence of states and imperial systems; the rise of monarchies in the Sudan forest areas and in Central Africa; where relevant, consideration will be given to relations between African states and the development of institutions. An essay will be required.

Requisite: Previous course work in the Department of History or the consent of the instructor. First semester. Professor Davis.

70. Modern African History. This course will deal with the impact of exploration, missionary activity, European penetration and imperial systems, the Congress of Berlin and the African reaction. Much of the reading is from scholarly journals. An essay will be required.

Requisite: History 69 or the consent of the instructor. Second semester. Professor Davis and Department.

75. Central and South Africa in Nineteenth-Twentieth Century. An introduction to the evolution of African states and kingdoms in Central and South Africa. Special attention will be given to a study of the emergence of the Zulu and Shona nations. The structure of African states and kingdoms north of the Limpopo River and the effects of British and Dutch policy on African life will also be considered. The policies and tactics of Shaka, the Zulu, Moshesh, and Mkwawa.

Admission by consent of the instructor. First semester. Omitted 1972–73. Professor Davis.

76. Modern Africa: The Intellectual Heritage. Use of novels, autobiography and psychological materials to illuminate the central characteristics of colonialism and their continuing consequences in the African historical setting. Works by Abbas, Abraham, Achebe, Berque, Beti, Cary, Césaire, Fanon, Kenyata, Laye, Senghor and others are treated against the historical situations that gave rise to them. Two seminar meetings per week.

Limited to fifteen students, with consent of the instructor. Second semester. Omitted 1972–73. Professor Gifford.

77, D77. Independent Research, culminating in one or more pieces of historical writing which may be submitted to the Department for a degree with honors. Normally to be taken as a single course but, with permission of the Department, as a double course as well.

First semester. The Department.

78, D78. Independent Research. Same course description as 77, D77.

Second semester. The Department.

82. History and Theory. Readings and discussion of works exemplary of controversy and speculation concerning such problems as the nature of historical knowledge, the social role of the historian, history as literature and as social science, and social causation and historical explanation. One seminar meeting per week.

Second semester. Omitted 1972–73. Professors Cheyette and Halsted.

97, H97. Special Topics. Independent Reading Course.

First semester.

98, H98. Special Topics. Independent Reading Course.

Second semester.

RELATED COURSES

African Nationalism. See Black Studies 51.
Limited to twenty-five students. First semester. Professor Davis.

Introduction to Black Religion in Africa and the Americas. See Black Studies 62.
Elective for Sophomores and Juniors. Second semester. Professor Davis.

Comparative Slave Systems in Africa and the Americas. See Black Studies 63.
Admission by consent of the instructor. To alternate with History 69. First semester. Omitted 1972–73. Professor Davis.

Classical Civilization. See Classics 23.
Elective for Sophomores. First semester. Mr. Griffiths.

Classical Civilization. See Classics 24.
Elective for Sophomores. Second semester. Professor Marshall.

Problems in Greek Civilization. See Classics 32.
Requisite: Classics 23 or consent of instructor. Restricted to fifteen students. First semester. Mr. Griffiths.

Problems in Roman Civilization. See Classics 33.
Requisite: Classics 24 or consent of instructor. Restricted to fifteen students. First semester. Professor Marshall.

European Economic History. See Economics 27.
Requisite: Economics 11. First semester. Omitted 1972–73. Professor Aitken.

American Economic History. See Economics 28.
Requisite: Economics 11. Second semester. Professor Aitken.

Problems in Economic History. See Economics 32.
Requisite: Economics 27 or 28 and consent of instructor. Restricted to fifteen students. Second semester. Omitted 1972–73. Professor Aitken.

Religion, Culture and Society in Japanese History. See Religion 23.
First semester. Professor Lee.

History of Science. See page 198.

Latin. See page 96.

Latin American Studies. See page 198.

Legal Studies. See page 198.

AMHERST COLLEGE

MATHEMATICS

Professors Breusch and Mauldon; Associate Professors Bailey (Chairman), Denton, and Starr*; Assistant Professors Armacost, D. Birnbaum, and Hadlock.

Major Program. The basic minimum course requirements for a major are Mathematics 11, 12 (or 13), 21, 22, 25, 26, Physics 13, 14 or an alternate approved by the Department, and at least three more courses in mathematics. Students with a strong background in mathematics may be excused from certain courses such as Mathematics 11. It is recommended that such students take the Advanced Placement Examination in Mathematics.

A comprehensive examination for honors candidates will be given toward the end of the second semester of their junior year. For other majors, the comprehensive examination will be given during the first seven weeks of the second semester of their senior year.

A student considering a major in mathematics should consult with a member of the Department as early as possible, preferably during his freshman year. This will enable him to arrange a program best suited to his ability and interest, whether it be in mathematics, secondary school teaching, or a non-mathematical career. If possible, he should complete two courses during his freshman year, and he should have completed all required courses by the end of his junior year.

For a student considering graduate study in mathematics, an honors program and a reading knowledge of two foreign languages (usually German, French or Russian) are extremely desirable. Such a student is advised to take the Graduate Record Examination early in his senior year.

Honors Program. For a degree with honors, the following additional courses are required: Mathematics 42, 43, 77 and 78. Students are admitted to the honors program on the basis of a qualifying examination given during the second semester of their junior year. Before the end of the junior year, an individual thesis topic will be selected by an honors candidate in conference with a member of the Department. After an intensive study of this topic, the candidate will write a report in the form of a thesis which should be original in its presentation of the material, if not in content. All students majoring in mathematics are expected to attend the mathematics colloquium during their junior and senior years, and honors candidates will report to the seminar on their thesis work during their senior year.

Students who have taken Mathematics 13 prior to 1971–72 may substitute this for Mathematics 12 when listed as a requisite for any higher level course.

*On leave 1972–73.

9. Finite Mathematics. A course intended primarily for non-mathematics majors. Emphasis will be placed on topics having applications in the social sciences. Elementary discrete probability theory (counting techniques, independent trials, expected values), elementary matrix algebra with applications to Markov chains, decision theory, simulation, linear programming, game theory. Four class hours per week.

Elective for Freshmen. First semester. Professor Hadlock.

11. Introduction to the Calculus. Basic concepts of limits, derivatives, antiderivatives; applications; the definite integral, simple applications; circular functions and their inverses; logarithms and exponential functions; techniques of integration. Four class hours per week.

No student who has taken Mathematics 13 may take Mathematics 11. Elective for Freshmen. First semester. The Department.

11s. Introduction to the Calculus. Same description as Mathematics 11. Second semester. The Department.

12. Intermediate Calculus. The elementary theory of the derivative and the integral, including the mean value theorem, the existence of the definite integral, and the fundamental theorem of the calculus; improper integrals; the Taylor development and power series; vectors in three dimensions; partial differentiation, chain rule, gradient; conic sections, translation and rotation of axes, polar coordinates, applications to motion, space curves. Four class hours per week.

Requisite: a grade of C- or better in Mathematics 11 at Amherst College or the consent of the Department. No student who has taken Mathematics 13 may take Mathematics 12. Elective for Freshmen. Second semester. The Department.

12f. Intermediate Calculus. Same description as Mathematics 12. First semester. The Department.

18. Nature of Mathematics. An exposition of the nature of mathematics through the study of various topics such as the axiomatic method, the foundations of mathematics, cardinal numbers, real numbers, prime numbers, groups and symmetry, non-Euclidean geometry, graph theory and applications of the above. Content varying from year to year. Four class hours per week. Offered in alternate years.

Elective for Freshmen. Second semester. Professor Armacost.

21. Multivariable Calculus. Multiple integrals in two and three dimensions; line integrals in the plane; Green's theorem; the Taylor development and extrema of functions of several variables; implicit function theorems; Jacobians. Four class hours per week.

Requisite: A grade of C or better in Mathematics 12 or the consent of the instructor. Elective for Sophomores. First semester. Professor Bailey.

21s. **Multivariable Calculus.** Same description as Mathematics 21.

Requisite: Same as Mathematics 21. Elective for Freshmen. Second semester. Professor Breusch.

22f. **Advanced Calculus.** Completeness of the real numbers; topologp of n-space including the Bolzano-Weierstrass and Heine-Borel theorems; sequences, properties of functions continuous on closed, bounded sets; infinite series; uniform convergence; Fourier series; surface integrals; divergence theorem; Stokes' theorem. Four class hours per week.

Requisite: Mathematics 21. Elective for Sophomores. First semester. Professor Hadlock.

24. **Numerical Analysis.** Linear algebra and differential equations, with special emphasis on efficient methods of computation. Some analytic aspects of each topic will also be considered. Four class hours per week.

Requisite: Mathematics 12. Elective for sophomores. Second semester. Omitted 1972–73. Professor Bailey.

25. **Algebra I.** The study of a finite-dimensional abstract vector space and the algebra of linear transformations which act on it, together with the isomorphic algebra of matrices; the dual space, the effect of a change of basis, invariant subspaces, minimal polynomial of a transformation, characteristic vectors, various canonical forms. Four class hours per week.

Elective for Sophomores. First semester. Professor Mauldon.

26. **Algebra II.** A brief consideration of properties of sets, mappings, and the system of integers, followed by an introduction to the theory of groups and rings including the principal theorems on homomorphisms and the related quotient structures; integral domains, fields, polynomial rings. Four class hours per week.

Requisites: Mathematics 12 and 25. Elective for Sophomores. Second semester. Professor Mauldon.

33. **Theory of Numbers.** An introduction to the theory of rational integers; divisibility, the unique factorization theorem; congruences, quadratic residues. Selections from the following topics: Diophantine equations; Waring's problem; asymptotic prime number estimates; continued fractions; algebraic integers, unique factorization domains. Four class hours per week. Offered in alternate years.

Elective for Sophomores. First semester. Professor Breusch.

34. **Introduction to Probability and Statistics.** Elementary probability, including statements of the law of large numbers and the central limit theorem; joint distribution functions; distribution functions of frequent occurrence in statistics, such as the Normal, Poisson, Chi square and Student's t, and their use in hypothesis testing and estimation; roles of the law of large numbers and the central limit theorem in hypothesis testing and

estimation (including errors of type I and type II); a brief introduction to non-parametric methods. Four class hours per week.

Requisite: Mathematics 11. Except with special permission of the departments concerned, this course and Economics 15 may not both be taken for credit. Elective for Freshmen. Second semester. Professor Denton.

34f. Introduction to Probability and Statistics. Same course description as Mathematics 34.

First semester. Professor Denton.

35. Statistics. Intermediate probability; forms and sketches of proofs of the law of large numbers and the central limit theorem; Neyman-Pearson theory of hypothesis testing and estimation; properties of some parametric and non-parametric tests of wide applicability; introduction to decision theory. Four class hours per week. Offered in alternate years.

Requisite: Mathematics 34. Elective for Sophomores. First semester. Professor Denton.

38. Markov Chains. Elements of stochastic processes; limit theorems for Markov chains, algebraic methods, continuous time. A selection from the following topics: genetic and ecological processes, queuing theory, Brownian motion. Examples include gambler's ruin, random walks, queuing, birth and death processes, counters, ballot problems and other examples, mainly from biology and engineering. Four class hours per week. Offered in alternate years.

Requisite: Mathematics 21 and the consent of the instructor. Elective for Sophomores. Second semester. Omitted 1972–73. Professor Mauldon.

42. Functions of a Complex Variable. An introduction to analytic functions; complex numbers, derivatives, conformal mappings, integrals, Cauchy's theorems; power series, singularities, Laurent series, analytic continuation; Riemann surfaces; special functions. Four class hours per week.

Requisite: Mathematics 21. Elective for Sophomores. Second semester. Professor Breusch.

43. Functions of a Real Variable. An introduction to Lebesgue measure and integration; topology of the real numbers, inner and outer measures and measurable sets; the approximation of continuous and measurable functions; the Lebesgue integral and associated convergence theorems; the Fundamental Theorem of Calculus. Four class hours per week.

Requisite: Mathematics 22. Elective for Juniors. First semester. Professor Armacost.

44. Topology. An introduction to general topology; the topology of Euclidean, metric and abstract spaces with emphasis on such notions as continuous mappings, compactness, connectedness, completeness, separable

spaces, separation axioms, metrizable spaces. Additional topics may be selected to illustrate applications of topology in analysis or to introduce the student briefly to algebraic topology. Four class hours per week. Offered in alternate years.

Requisite: Mathematics 22 or consent of the instructor. Elective for Juniors. Second semester. Professor Birnbaum.

46. Differential Equations. First order equations, second order linear equations; first order systems; series solutions; general existence and uniqueness theory; additional material varying from year to year from the following topics: stability theory, Poincaré-Bendixson theorem, numerical methods, control theory, partial differential equations, boundary value problems, and transform methods. Four class hours per week. Offered in alternate years.

Requisite: Mathematics 21. Elective for Sophomores. Second semester. Omitted 1972–73.

77. Honors Course.

Elective for Seniors with the consent of the Department. First semester. The Department.

78. Honors Course.

Requisite: Mathematics 77. Second semester. The Department.

97, H97. Special Topics. Independent Reading Course. Full or half course. First semester.

98, H98. Special Topics. Independent Reading Course. Full or half course. Second semester.

MUSIC

Professor Mishkin (Chairman); Associate Professor McInnes; and Assistant Professors May, Spratlan, and Wheelock.

Major Program. The course of study for music majors should be planned, in consultation with the Department, to meet the needs and interests of the individual student. Concentration may be in music history, theory and composition, or performance. All majors are advised to elect a two-year sequence in music theory, Music 31–32, 33–34, as basic to all academic study of music. The *rite* major with concentration in theory or music history consists of a minimum of eight semester courses. The *rite* major with concentration in performance consists of a minimum of nine semester courses including at least six half courses in performance, Music H29–H30.

Honors Program. The honors major should elect the course of study stipulated for the *rite* major plus Music 77–78. The senior project acceptable for honors in music may be an historical or critical thesis, a composition, or a formal recital, dependent upon the student's field of concentration.

11s. Introduction to Music. The elements of musical design; a creative engagement with the problems of the composer and listener. Three class meetings a week.

Elective for Freshmen. Second semester. Professor May.

15. Listening. A study of representative works from the history of music. This course does not require previous musical study. Two class meetings and one listening section (to be arranged) a week.

Elective for Sophomores. First semester. Professor Mishkin.

21. History of Western Music 1100–1650. A survey of major composers and stylistic developments in the medieval, renaissance and early baroque eras. Three class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. First semester. Professor May.

23. World Music. An investigation of some intrinsic musical cultures, including tribal, folk and art music. Musical forms, instruments and aesthetics are scrutinized, emphasizing the position of music in each culture. Artists and scholars from various cultures will present lectures and public concerts as part of the course. The first semester will deal with Indian-American music and that of the Pacific Islands, Indonesia, Japan, China, Korea, and Southeast Asia.

Requisite: Music 11 or the consent of the instructor. First semester. Professor Cole.

24. World Music. A continuation of Music 23. The course will treat the music of India (North and South), Middle Asia, and Africa, as well as European Folk and African-American music.

Requisite: Music 11 or Music 23 or the consent of the instructor. Second semester. Professor Cole.

27. Chamber Music. The relation of ensemble size to level of musical thought. Examples will be studied from renaissance consort music, baroque trio sonatas, classical and romantic string quartets and modern ensembles of diverse instrumentation including jazz and improvisational ensembles. Three class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Juniors. First semester. Omitted 1972-73. Professor Wheelock.

Performance. To receive academic credit for private instrumental or vocal instruction a student must follow one of the two plans adopted by the Department and register his option in writing with the Music Department before each semester, as well as including the information in his regular registration forms.

PLAN I. Under a cooperative arrangement with Smith and Mount Holyoke Colleges performance courses are offered in keyboard, string and wind instruments and in voice. Instruction will be given by members of the Music Departments of Smith and Mount Holyoke Colleges. Course listings, requisites and instructors can be found in the course bulletins of each college. Under Plan I a seperate Five-College Interchange Course Application is completed by the student for each semester course in performance, listing his instrument and the appropriate Smith or Mount Holyoke course number. These application blanks are available at both the Registrar's and Music Department's offices.

It should be noted that an extra fee is charged to cover a portion of the expense for this special type of instruction. For 1971–1972 the fee charged the student for each semester course will be: Smith College, $150.00; Mount Holyoke College, $112.00.

PLAN II. Amherst College **Music H29, H30.** In this plan students first consult the Chairman of the Amherst Music Department to make private arrangements for music instruction with teachers accredited by the Department. Students will arrange schedules and fees directly with their instructors, who must be among those approved by the Department. Registration should be under the course listing: Amherst College—Music **H29** or **H30;** students should insure that they are also listed with the Music Department Office.

The general regulations for performance instruction under either plan are:

1. Consult the Chairman of the Amherst Music Department who will arrange for teachers, auditions and lesson schedules.
2. One hour of private instruction and nine hours of practice a week are expected.
3. Unless otherwise arranged with the Department, all performance courses will be elected for one half course (two semester hours).
4. Two performance half courses may be counted as the equivalent of one full course for fulfilling degree requirements. Study for less than two consecutive semesters will not be counted for satisfying degree requirements.
5. A student electing a performance course may carry four and a half courses each semester, or four and a half courses the first and three and a half courses the second semester.
6. Only with special permission of the Department may students elect more than one performance course in a semester.

Requisite: A proficiency of at least intermediate level on the instrument to be studied. Elective for Freshmen with the consent of both the Amherst

Music Department and the instructor. This course may be repeated. First and second semesters.

31. Elementary Theory. Basic principles of harmonic and contrapuntal technique. Triads and their inversions, nonharmonic tones, modulations, harmonizations in chorale style. Two class meetings a week.

Requisite: ability to play all written work and the consent of the instructor. Elective for Freshmen. First semester. Professor Wheelock.

32. Elementary Theory. A continuation of Music 31. Seventh chords, elementary phrase structure, formal analysis. Two class meetings a week.

Requisite: Music 31. Elective for Freshmen. Second semester. Professor Mishkin.

33. Intermediate Theory. The theory of tonal music with particular emphasis on the 18th and 19th centuries. Exercises in basic musicianship, modal counterpoint and figured bass. Students will analyze works and write pieces modeled on them. Two class meetings and one conference (to be arranged) a week.

Requisite: Music 32. Elective for Sophomores. First semester. Professor May.

34. Intermediate Theory. A continuation of Music 33 with particular emphasis on the late 19th and 20th centuries. An introduction to the analytical methods of Schoenberg and Schenker. Two class meetings and one conference (to be arranged) a week.

Requisite: Music 33. Elective for Sophomores. Second semester. Professor May.

42. Bach. The Bach style studied in relation to the development of music since 1600. Two class meetings a week. Offered in alternate years.

Requisite: Music 11 or the consent of the instructor. Elective for Juniors. Second semester. Professor Mishkin.

43s. Mozart. A study of the instrumental and sacred choral music. Two class meetings a week. Offered in alternate years.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. Second semester. Omitted 1972–73. Professor Mishkin.

44f. Beethoven. A study of the piano, chamber, orchestral and choral music. Three class meetings a week. Offered in alternate years.

Requisite: Music 11 or the consent of the instructor. Elective for Freshmen. First semester. Professor Spratlan.

45. Opera. The development of the musical drama from 1600 with emphasis on a detailed study of operatic types. Concentration on representative works by Monteverdi, Handel, Mozart, Verdi and Wagner. Three class meetings a week. Offered in alternate years.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. First semester. Omitted 1972–73. Professor McInnes.

46. Choral Music. Major choral works from Bach to Stravinsky. Three class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. Second semester. Professor McInnes.

47. Nineteenth Century Music. Topics in the music of the Romantic era: post-Beethoven chamber and orchestral music; the miniature and the monumental; the effect on musical language of the programatic idea; nationalism and literary influences; lyric opera and the Music Drama. Two class meetings a week. Offered in alternate years.

Requisite: Music 11 or the consent of the instructor. Elective for Juniors. First semester. Omitted 1972–73. Professor Spratlan.

48. Twentieth Century Music. Analyses of key works by Bartok, Berg, Debussy, Schoenberg, Stravinsky, and Webern and discussion of some recent developments. Three class meetings a week. Offered in alternate years.

Requisite: Music 11 or the consent of the instructor. Elective for Juniors. Second semester. Omitted 1972–73. Professor Wheelock.

50. Music in the United States. A study of American musical culture with particular attention to the fusion of European and African elements. Three class meetings a week.

Elective for Freshmen. Second semester. Professor Spratlan.

52. Seminar in the Music of John Coltrane. An in-depth study of the style and contribution of John Coltrane to African-American music. Beginning with his first recording dates as a sideman in 1949 and continuing through to his death in 1967. Recordings, interviews, and criticisms will be used extensively to determine why Coltrane became the leading voice in African-American music. A knowledge of the technical aspects of music (notation, transcription, etc.) is required.

Requisite: Consent of the instructor. Limited to ten students. Second semester. Professor Cole.

69. Composition. A course in elementary composition beginning with simple inventions and emphasizing the study of twentieth century techniques. Included in the course will be demonstrations of orchestral instruments. Two meetings a week.

Requisite: ability to read music. Knowledge of traditional music theory is not required. Elective for Freshmen. First semester. Professor Wheelock.

70. Composition. A continuation of Music 69. Two class meetings a week.

Requisite: Music 69 or Music 31. Elective for Freshmen. Second semester. Professor Wheelock.

71. Composition Seminar. Composition according to the needs and experience of the individual student. Two class meetings a week and private conferences.

Requisite: Consent of the instructor. Elective for Juniors. First semester. Professors Spratlan and Wheelock.

72. Composition Seminar. A continuation of Music 71.

Requisite: Music 71 or the consent of the instructor. Music 71 and 72 may be elected for more than one year. Elective for Juniors. Second semester. Professors Spratlan and Wheelock.

77, D77, 78, D78. Conference Course. Advanced work in history, composition or performance for honors candidates. A thesis, a major composition or a formal recital will be required. No student shall elect more than one semester as a double course. A double course or a full course.

Elective for qualified Seniors. First and second semesters.

NATURAL SCIENCES

Advisory Committee: Professors Brower, Dempesy, and Silver; Associate Professor Starr*, Assistant Professor Kuntz and others.

This major is offered to the natural science oriented student whose professional goals would be best served by exposure to a broad spectrum of science courses rather than by an intensive study in a traditional science field. Examples of students who might find this program tailored to their needs are: A) A student intending to teach science at the secondary school level; B) A student interested in certain new sciences, e.g., oceanography or environmental studies, which make use of many traditional areas; C) A student preparing for further study in the history or philosophy of science; D) A student oriented toward graduate study in business administration with the intention of becoming an administrator in a science-oriented industry.

This program is *not* intended for students interested in structuring a major around only two departments, e.g. a Chemistry student who wishes to substitute courses in Biology for some of the Chemistry requirements, or a Philosophy student desiring to replace certain Philosophy requirements with Physics courses. Such students should employ the Interdepartmental Major to achieve their aims. The Natural Sciences Major has been established specifically for students wishing to design a major around *more* than two departments (and primarily those within Division III). Students approaching the Natural Sciences Committee about the program should be certain that they possess such broad interests.

*On leave 1972–73.

The courses for this program are selected from the standard offerings of the various science departments and, in special cases, from certain related departments (see below). The members of the faculty committee indicated above serve as advisors to students and administrators of the honors program, the comprehensive examination, and other departmental functions. Admission to this major will be considered on a case by case basis, and the Committee as a whole will be the final judge of the acceptability of any proposal. Any student who feels he might benefit from such a program is urged to consult with a committee member as early as possible to discuss his particular case and to consider feasible lines of study. No student will be admitted to the program after 14 days of the second semester of his Junior year.

Major Program: All students must complete the following basic requirements: Mathematics 11; 2 courses from one department within Division III; 2 courses from another department within Division III; 3 courses from a third department within Division III.

In addition, each student must select in consultation with a Committee member at least three more courses within Division III to complete a program exhibiting a coherent structure relevant to his educational goals. Variation on this requirement will be permitted a student whose interests demand that courses outside of Division III (e.g. in Philosophy, Economics, History, etc.) be included in his major program. Final approval of any program must be obtained from the Committee as a whole. A comprehensive exam prepared on an individual basis will be given during the first semester of the Senior year.

Honors Program: A candidate for degree with honors must complete five courses beyond the basic requirements (rather than the three specified for the *rite* major). These must include Natural Sciences 77, and 78 or D78. With the approval of the Committee, an honors candidate may choose to do his senior honors work with any interested faculty member from a discipline relevant to his program. Examples of possible honors projects are: A) Teaching for one semester in a local secondary school, plus a semester of evaluation. B) Honoring within a regular Division III Department (provided sufficient work has been pursued within that Department to warrant acceptance of the student at the honors level). C) Special Topics with one or more departments (not necessarily within Division III, but related).

The comprehensive exam, with additional individually designed portions, must also be taken by honors candidates in the first semester of the senior year.

77, 78, D78. **Natural Sciences Honors.** Individual, independent work on a problem approved by the committee, culminating in the presentation of a

thesis. Elective for Seniors admitted to the honors program. Full course first semester. Full or double course second semester. The Committee.

97, H97, 98, H98. Special Topics. Independent Reading. Full or half course. First and Second semesters.

PHILOSOPHY

Professors Epstein†, Kennick (Chairman), and Pemberton; Assistant Professors Kearns and Sicha.

Major Program. Philosophy 17 and 18; at least six other courses within a major program approved by the Philosophy Department before the beginning of the second semester of the student's junior year; a comprehensive examination.

Honors Program. Philosophy 17 and 18; Philosophy 77 and D78; at least four other courses within a major program approved by the Philosophy Department before the beginning of the second semester of the student's junior year; a comprehensive examination. Early in the first semester of the senior year, each honors candidate will submit a thesis topic for approval of the Department and will present to a meeting of philosophy majors and members of the Philosophy Department a general discussion of his proposed thesis topic. Late in the same semester he will present to a similar meeting a draft of part of the thesis; this draft will have been distributed beforehand and will be discussed at this time. A draft of the entire thesis will be presented and discussed at a meeting during the week after Spring vacation. The thesis will be due on May 1.

Comprehensive Examination. Members of the class of 1972 and subsequent classes will take their comprehensive examination in the third week of the second semester of their junior year. The examination will consist of questions which are distributed to the student two weeks before the examination. Of the total number of questions, some number determined by the Philosophy Department will be answered by each student. The student may choose to do a wholly oral examination, a wholly written examination, or a partly oral and partly written examination. He will be required to present an oral explication of any part of his examination that is written. When necessary, the above procedures will be altered appropriately in the case of students who declare their philosophy major late.

Organization of the Philosophy Curriculum. The following division of the philosophy courses into groups is intended as an aid to the student in his selection of philosophy courses. Group I: 11(11s), 13, 17, 18, 19; Group II: 21, 21s; Group III: 31, 32, 33, 34f, 35s; Group IV: 48, 61, 62, 77, D78.

†On leave first semester 1972–73.

Two-Year Schedule of Philosophy Courses. As an aid to the student in long-range planning of his schedule, the Department will adhere to the following alternating yearly schedule of course offerings. First year, first semester: 11 (two sections), 13, 17, 21, 33, 34f, 61; first year, second semester: 11s (two sections), 18, 21s, 32, 48, 62. Second year, first semester: 11 (two sections), 13, 17, 21, 31, 33, 61; second year, second semester: 11s (one section), 18, 21s, 35s, 46f, 48, 62. The academic year 1970–71 is a first year, the year 1971–72 a second year, and so on.

GROUP I

11. Introduction to Philosophy. Training in philosophical reasoning. Classical and contemporary authors, chosen to exemplify basic problems of philosophy, will be discussed. Three class hours per week.

Elective for Freshmen. Each section limited to 25 students. First semester. Professor Sicha.

11s. Introduction to Philosophy. Same course description as Philosophy 11.

Elective for Freshmen. Each section limited to 25 students. Second semester. Professor Kearns.

13. Introduction to Logic and the Methods of Scientific Inquiry. The elements of: (1) traditional and modern formulations of conditions of valid inference, (2) the structure of probable inference, (3) the conditions for such representative procedures in the sciences as definition and classification, measurement, sampling and induction, the formation and confirmation of hypotheses, (4) philosophies of logic; special emphasis on a functional analysis of formal structures in the pattern of scientific inquiry. Three class hours per week.

Elective for Freshmen. First semester. Omitted 1972–73. Professor Epstein.

17. History of Ancient and Medieval Philosophy. A survey of European philosophy from 600 B.C. to A.D. 1400, with emphasis on Plato, Aristotle, the Stoics, Epicureans, and Skeptics, Plotinus, Augustine, Anselm, Abelard, and Aquinas. Reading and discussion of selected works of the period. Three class hours per week.

Elective for Freshmen. First semester. Professor Kennick.

18. History of Early Modern Philosophy. A survey of European philosophy from 1400 to 1800, with emphasis on Bacon, Hobbes, Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume, and Kant. Reading and discussion of selected works of the period. Three class hours per week.

Requisite: Philosophy 17 or the consent of the instructor. Elective for Freshmen. Second semester. Professor Kennick.

19. History of Nineteenth and Twentieth Century Philosophy. A survey of European philosophy from 1800 to the present, with emphasis on Hegel, Mill, Schopenhauer, Marx, Kierkegaard, Nietzsche, Husserl, Heidegger or Sartre, Russell, and Wittgenstein. Reading and discussion of selected works of the period. Three class hours per week.

Requisite: Philosophy 18 or the consent of the instructor. Elective for Sophomores. First semester. Professor Kennick.

GROUP II

21. Topics in Philosophy. This course surveys (a) the work of one philosopher, or (b) a period or school of philosophy, or (c) the basic historical writings in a subject not taught in regular courses. This course may be repeated for credit by permission of the Department.

In 1972–73, the topic is Peace and Violence. 'God said to Abraham, "Kill me a son." Abe said, "Man, you must be puttin' me on." God said, "No." Abe said, "What?" God said, "You can do want you want, Abe, but the next time you see me comin' you better run." (B. Dylan) Specific topics and reading within the general topic are negotiable.

Requisite: Permission of instructor. (Suggested: one philosophy course from Group I passed with at least a C). Elective for Freshmen. First semester. Professor Sicha.

21s. Topics in Philosophy. This course is devoted to the study of one work of social philosophy, or one social philosopher, or one school of social philosophy. This course may be repeated for credit by permission of the Department.

In 1972–73, the topic is the Philosophy of Law.

Requisite: Permission of instructor. (Suggested: one philosophy course from Group I passed with at least a C). Elective for Freshmen. Second semester. Professor Kearns.

GROUP III

31. Aesthetics. A critical examination of selected theories of the nature of art, expression, creativity, artistic truth, aesthetic experience, interpretation and criticism. Special emphasis is placed on the thought of modern philosophers and critics. Three class hours per week.

Requisite: Permission of instructor. (Suggested: two philosophy courses passed with at least a C). Elective for Sophomores. First semester. Omitted 1972–73. Professor Kennick.

32. Metaphysics. A critical examination of selected metaphysical theories in the light of the arguments used to support them. The topics of sample

theories include: appearance and reality; sense-data; solipsism; space, time, and infinity; universals; the existence of God; the nature of mind.

In 1972–73, the special topic is Ontology: the concept of existence and the nature of metaphysical arguments having existential conclusions.

Requisite: Permission of instructor. (Suggested: two philosophy courses passed with at least a C). Elective for Sophomores. Second semester. Professor Kennick.

Philosophy of Religion. See Religion 33.

Requisite: Permission of the instructor. (Suggested: Philosophy 11 and either Philosophy 17 or Religion 16.) Elective for Sophomores. First semester. Professor Pemberton.

34f. Ethics. An examination of (a) some fundamental meta-ethical issues (e.g., the nature of morality, moral psychology, the nature of moral properties, and moral reasoning) and (b) some selected normative theories (e.g., Utilitarianism and the moral philosophy of Kant).

Requisite: Permission of instructor. (Suggested: two philosophy courses passed with at least a C). Elective for Sophomores. First semester. Professor Kearns.

35s. Epistemology. A treatment of traditional problems concerning the nature and acquisition of knowledge.

Requisite: Permission of instructor. (Suggested: two philosophy courses passed with at least a C.) Elective for Sophomores. Second semester. Professor Sicha.

GROUP IV

48. Philosophy of Science. In what sense, if any, is Scientific Objectivity possible? The 'standard objectivist' view will be developed from the writings of Nagel, Popper and Scheffler on the distinction between the observational and theoretical levels in science, experimental and theoretical laws, deductive and non-deductive explanation, the reduction of thories. The assault upon the possibility of Scientific Objectivity will be developed from the writings of Kuhn, Hanson, Feyerabend and Polanyi on the theory-laden character of observation, critical meaning-shifts induced by changes in theory, the role of "passionate, personal, human appraisals of theories" in the logic of justification and the logic of discovery.

Requisite: Permission of instructor. (Suggested: two philosophy courses passed with at least a C). Elective for Sophomores. Second semester. Professor Epstein.

61. Seminar in Philosophy. An examination of some central problems posed by law, morality and the possibility of conflicting duties. Among the topics

to be considered are: oughts, imperatives and conflicting duties; legal obligation, the rule of law, civil disobedience and some proposed justifications, punishment for civil disobedience, the Nuremberg Principles.

Requisite: Permission of instructor. (Suggested: three philosophy courses passed with at least a C, at least one of which is from Group III.) Elective for Juniors. First semester. Professor Kearns.

62. Seminar in Philosophy. Topics in the Philosophy of Language. ". . . . There's glory for you!" "I don't know what you mean by 'glory' " Alice said. Humpty Dumpty smiled contemptuously. "Of course you don't—till I tell you." . . . "When I use a word," Humpty Dumpty said, in a rather scornful tone, "it means just what I choose it to mean—neither more nor less." (C. L. Dodgson) Specific topics and readings to be decided by the seminar.

Requisite: Permission of instructor. (Suggested: three philosophy courses passed with at least a C, at least one of which is from Group III). Elective for Juniors. Second semester. Professor Sicha.

77. Conference Course. Required of candidates for honors in philosophy. The writing of an original essay on a topic chosen by the student and approved by the Department.

Elective for Seniors. First semester. The Department.

D78. Conference Course. Required of candidates for honors in philosophy. A continuation of Philosophy 77. A double course.

Elective for Seniors. Second semester. The Department.

97. Special Topics. Independent Reading Course. Reading in an area selected by the student and approved in advance by a member of the Department.

Requisite: Permission of the instructor. First semester.

98. Special Topics. Independent Reading Course. Same as Philosophy 97.

Requisite: Permission of the instructor. Second semester.

PHYSICAL EDUCATION

Professors Dunbar, McCabe (Chairman), Ostendarp and Wilson; Associate Professors Mehr‡, Serues and Thurston; Assistant Professors Gooding, Littlefield and Terrill; Mr. Rokoszak.

Complete physical examination, adapted physical education program for special students. Required freshman program of team games, individual sports and recreational activities, with an emphasis on skill acquisition in a breadth of activities.

‡On leave second semester 1972–73.

An individually structured and scheduled sophomore program, operating through an advisory system, emphasizes carry-over activities and life-long recreational pursuits.

A detailed statement concerning the department's program is available in the Office of the Registrar.

PHYSICS

Professors Benson, Dempesy (Chairman), Gordon,* Romer, and Towne; Assistant Professors Tinker and Valberg, and Visiting Assistant Professor Verosub.

Major Program. The minimum course requirements for a major in physics are as follows: Mathematics 11, 12, 21; Physics 13, 14, 23, 26, 27, 28 and 36.

In addition, all physics majors will attend the Physics Seminar during their junior year, and will participate actively in it in the senior year. Majors will be required to demonstrate ability in computer programming. Students should consult the Department for information concerning the various ways this requirement can be satisfied. Senior majors must pass a written comprehensive examination.

Honors Program. The course requirements for a major with honors are the specific courses listed above, plus Physics 58, 77 and 78. (For students intending to make a career in physics, Physics 73 and 75 and at least one additional mathematics course are strongly recommended.) At the end of the first semester of the senior year, the student's progress on his honors problem will determine the advisability of his being allowed to continue the honors program.

Any student considering a major in physics should seek the advice of a member of the Department as early as possible in order to work out a program best suited to his interest and ability, whether he is considering a career in physics, engineering, secondary school science teaching, one of the inter-science fields such as biophysics, or a non-scientific career. Mathematics 11 should be taken during the first semester of freshman year by anyone contemplating an honors major, and in any event no later than the second semester. Prospective physics majors should plan to take Physics 26 at the earliest convenient time. It should be noted that, at the discretion of the instructor, stated prerequisites may be waived if warranted by individual circumstances. Students interested in majoring in biophysics should consult the separate biophysics listing.

The aim of honors work in physics is to provide an opportunity for the student to develop under faculty direction his ability and interest in individual investigation, and his skill in experimental or theoretical techniques. The

*On leave 1972–73.

primary fields of experimental research in progress in the department are low temperature physics, nuclear magnetic resonance, mass spectrometry and oceanography. In addition, however, experimental equipment is available for work in some phases of magnetism, x-rays, optics, electronics, and atomic and nuclear physics. The student is given facilities to review the literature in the field chosen, to design, construct and assemble his experimental equipment, to perform experiments, and finally to prepare a thesis, which is due in May. During the spring, he will also present his work in the Physics Seminar, and at the end of the second semester, he will take an oral examination, in addition to the written comprehensive examinations required of all physics majors (see above). This oral examination is devoted primarily to the student's thesis and to questions suggested by his work on the written comprehensive examinations.

The departmental recommendation for the various degrees of honors will be based on the student's record in the Department, the honors work, and the comprehensive and oral examinations.

Physics 11 and Physics 12 have been designed to provide non-science majors with an understanding of the revolution in physical concepts that has occurred in this century. Although both courses are necessary to obtain a complete picture, either may be taken separately with benefit. No previous experience in physics is necessary. The level of mathematics expected of the student is high school algebra.

11. The Rise of Twentieth Century Physics. An investigation of Special Relativity, in particular how the failure to detect absolute space forced upon the physicist a revision of most of his ideas concerning space and time. Three class hours per week and occasional laboratories.

Elective for Freshmen. First semester. Professor Dempesy.

12. The Rise of Twentieth Century Physics. A brief survey of General Relativity (Equivalence Principle, Mach's Principle), followed by the background and development of Quantum Mechanics (Wave-particle duality, Indeterminism). Three class hours per week and occasional laboratories.

Elective for Freshmen. Second semester. Professor Dempesy.

Colloquium in Modern Experimental Science. See Colloquia, p. 184.

Requisite: Permission of the course chairman: Elective for Juniors and Seniors who have completed at least three semester courses toward a major in biology, chemistry, geology or physics. Limited to fifteen students. Second semester. Professors Benson (Chairman), Brophy, Fisher, Godchaux, Hove, Kuntz, Tinker, Valberg, and Waggoner.

13. Introductory Physics. Kinematics; Newton's laws of motion; universal gravitation; the conservation of linear momentum and energy; rotational kinematics and dynamics; angular momentum; Bohr's theory of the hydro-

gen atom. Four hours of lecture and discussion and one three-hour laboratory per week.

Requisite: Mathematics 11 or its equivalent. Elective for Freshmen. (Students who have not had high school physics should consult with the Department and may be advised to take some other science course before entering Physics 13.) First semester. Professor Tinker.

13s. **Introductory Physics.** Same course description as Physics 13.

Second semester. Professor Valberg.

14. **Introductory Physics (second part).** Development of elementary field concepts of electricity and magnetism; simple d-c and a-c electrical circuits. Transient and steady-state response of both mechanical and electrical resonant systems. Four hours of lecture and discussion and one three-hour laboratory per week.

Requisite: Physics 13 or 13s. Elective for Freshmen. Second semester. Professor Towne.

14f. **Introductory Physics (second part).** Same course description as Physics 14.

First semester. Professor Benson.

Colloquium in Environmental Chemistry and Physics. See Colloquia, p. 185.

Enrollment is limited; permission of the instructors required. Second semester. Professors Romer and Yost.

The Natural Science of the Human Organism. See Colloquia, p. 186.

Requisite: Satisfactory performance in a previous college-level natural science course. Physics 13 and 14 are strongly recommended for an in-depth approach to the subject. Alternate qualifications such as a high-school physics, chemistry, or biology course should be discussed with the instructors. First semester. Professors Karfunkel and Valberg.

23. **Modern Physics.** Relativistic kinematics and dynamics: Lorentz transformation, conservation laws of momentum and mass-energy, the Lorentz force law. Photons: the photoelectric and Compton effects, pair production. Matter waves: the de Broglie relation, Bragg reflection, Heisenberg's uncertainty principle. Particle detectors and accelerators. Nuclear structure: Alpha, beta and gamma decay, discovery of the neutron and the neutrino, natural radioactivity. Lectures three hours a week. Seven experiments will be performed during the course of the semester.

Requisite: Physics 14. Elective for Sophomores. First semester. Professors Towne and Verosub.

Inquiry in the Natural Sciences: The Nature of Light, Vision and Visual Perception. See Inquiry Courses, p. 191.

Elective for Freshmen. Second semester. Professors Kropf and Towne.

26. Mechanics. Solution of problems in one-dimensional motion; central forces; the two-body problem; rotating frames of reference; scattering theory. Four class hours per week.

Requisite: Physics 14 or 14f, Mathematics 21 or 21s. Elective for Sophomores. Second semester. Professor Benson.

27. Wave Phenomena. General characteristics of wave motion approached through the wave equation and the solution to boundary value problems. Energy relationships, diffraction, interference, reflection, refraction and polarization. Normal modes and eigenfunction expansions. Each phenomenon will be discussed in the context of either optics or acoustics depending upon the relative importance of its application in the two fields. Four class hours per week and occasional laboratories.

Requisite: Physics 14 or 14f, Mathematics 21 or 21s, Physics 26, or consent of the instructor. Elective for Sophomores. First semester. Professor Dempesy.

28. Electrical Measurements and Electronics. Laboratory work dealing with electrical and magnetic measurements, d-c, and a-c circuits, transistor electronics, and microwave measurements. Emphasis is placed on actual laboratory investigation, with special attention to transistor circuits. In special cases experiments may be selected to fit the needs of individual students. Two hours of lecture and two three-hour laboratories per week.

Requisite: Physics 14 or 14f. Elective for Sophomores. Second semester. Professor Tinker.

28f. Electrical Measurements and Electronics. Same course description as Physics 28.

Elective for Sophomores. First semester. Professor Romer.

36. Thermal and Quantum Physics. First and second laws of thermodynamics, application to simple systems. Blackbody radiation. Basic postulates of Quantum Mechanics. Schroedinger equation and wave functions. Heisenberg uncertainty principle, potential wells and the Hydrogen atom. Pauli exclusion principle. Atomic structure and spectra. X-rays. Zeeman effect. Application of Quantum Mechanics to theories of solids. The nucleus. Elementary particles and classification schemes. Lectures three hours a week. Seven experiments will be performed during the course of the semester.

Requisites: Physics 23, Physics 26, Physics 27, or equivalents. Elective for Juniors. Second semester. Professors Verosub and Dempesy.

58. Electromagnetic Theory. A development of Maxwell's electromagnetic field equations and some of their consequences. Electrostatics, potential theory, static magnetic fields, macroscopic theory of dielectric and magnetic

materials, Poynting's theorem, electromagnetic waves, radiation from an accelerated charge. Four class hours per week.

Requisite: Physics 26. Second semester. Professor Romer.

73. Analytical Dynamics and Wave Mechanics. Lagrangian and Hamiltonian formulations of classical mechanics. Calculus of variations and Fourier integral analysis. Quantum mechanical expectation values, Ehrenfest's theorem, uncertainty principles. Eigenfunctions of square potentials, harmonic oscillator, hydrogen atom. Four class hours per week.

Requisites: Physics 36. Elective for Juniors. First semester. Professor Valberg.

75. Thermodynamics and Statistical Mechanics. First, second and third laws of thermodynamics with applications to various physical systems. Phase transitions. Applications to low temperature physics, including superconductors and liquid helium. Introductory kinetic theory and statistical mechanics. Applications of Fermi-Dirac and Bose-Einstein statistics. Four class hours per week.

Requisites: Physics 36, or consent of instructor. First semester. Professor Benson.

77. Honors Course. Individual, independent work on some problem, usually in experimental physics. Reading, consultation and seminars, and laboratory work.

Designed for honors candidates, but open to other advanced students with the consent of the Department. First semester. The Department.

78, D78, Honors Course. Same course description as Physics 77. A single or a double course.

Requisite: Physics 77. Second semester. The Department.

97, H97, 98, H98. Special Topics. Independent Reading Course. Full or half course.

First and second semesters.

POLITICAL SCIENCE

Professors Kateb, Latham (Chairman), and Ziegler; Associate Professor Arkes* and Visiting Associate Professor Carroll; Assistant Professor Taubman; Mr. Schloming.

Major Program. A major in political science consists of nine courses in political science. Political Science 11 or 11s is a prerequisite for all majors.

*On leave 1972–73.

There are four major study areas within the Department as follows: American government, comparative politics, international relations, and political theory. The *basic courses* in each of these divisions are, respectively, Political Science 21; Political Science 25; Political Science 26; and Political Science 28.

Rite majors are required to take Political Science 76 in their senior year.

All majors in political science may be required to pass a comprehensive examination in political science. This examination will cover the discipline as a whole and will be written or oral or both written and oral as the Department may prescribe.

Honors Program. The honors program is designed to provide qualified students in political science with full opportunity for independent research and writing. Candidates for honors in political science will take Political Science D77 and 78. A cumulative average of 9 is required for admission to the honors program.

11. Introduction to Political Science. An analytical treatment of the role of politics in human society. Attention will be given to the theoretical and historical bases of political institutions, the social roots of political behavior, and the characteristics of the political process. Three class meetings per week.

First semester. Professor Latham.

11s. Introduction to Political Science. Same description as above.

Second semester. Professor Latham.

21. American Government. An introduction to the major problems of American democracy; their political, economic and social implications and their historical evolution. Politics and administration in their relation to constitutional government, federalism, suffrage, governmental functions, etc. Four class meetings per week.

First semester. Professor Ziegler.

25. Comparative European Politics. An examination of the government and politics of three European political systems: Great Britain, France, and the Soviet Union. Attention is given to the manner in which the formal institutions of government influence, and are influenced by, changing social, economic and cultural conditions. The political aspects of such problems as the concentration of economic power, the growth of the Welfare State and an industrial society, the decline (or persistence) of class distinctions, the growth of bureaucratic influence are discussed in a comparative setting. Three class meetings per week.

First semester. Mr. Schloming.

26. World Politics. International conflict and cooperation in historical and contemporary perspective. The struggle for power, the search for order and the limits of each. Special attention will be given to the making of American foreign policy, and to the role of the United States in contemporary world affairs. Three class meetings per week.

Second semester. Professor Taubman.

27s. Communism. Theory and practice. Ideology and utopia. Totalitarianism and modernization. Marxism, Leninism, Stalinism, East European Revisionism, Maoism, and their contemporary Western interpreters. Three meetings per week.

Second semester. Professor Taubman.

28. Political Theory from Hobbes to the Present. A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Three class meetings per week.

Second semester. Professor Kateb.

31. Political Parties. An analysis of the place of the political party in the modern political system. Primary emphasis is given to party as a factor in defining the character of the political regime: party as a reflector and modifier of legal institutions; the effect of party on voting and legislative behavior; the relations among parties, bureaucracy, and outside groups; the economic and social consequences of party structure. The principal focus will be on American politics, but comparative materials will also be drawn from European and non-Western countries. In election years, classroom work will be supplemented by participation in a political campaign. Three class meetings per week.

Requisite: Consent of the instructor. First semester. Professor Carroll.

32. Urban Politics. The city as a distinct theater of politics. Attention will be given to political machines, minority groups, the linkage between local and national politics, and selected policy problems.

Admission with the consent of the instructor. Second semester. Omitted 1972–73. Professor Arkes.

33s. Public Opinion. An exploration of public opinion in its distinctly political aspects: public opinion as regulating the scope of the political system; the relation between opinion and authority; the tests and contents which make some opinions more justified in ruling. Attention will be devoted to the measurement of opinion; the influence of demographic factors; the impact of small groups, the media, and voluntary associations. Opinion surveys will be combined with writings on political theory; and there will be some consideration also of the empirical commitments which may arise from using the language of "public opinion" and "public interest" in political

discourse. Classroom work plus participation in the design, administration, and analysis of an opinion survey. Three class meetings per week.

Second semester. Omitted 1972–73. Professor Arkes.

41. American Constitutional Development. The development of American constitutional philosophy since 1787 under three general heads: the Agrarian Constitution, the Laissez-Faire Constitution, and the Welfare Constitution. Topics will include the Marshall and Taney eras, constitutional problems of slavery, the Civil War and Reconstruction, the constitutional foundations of nineteenth century capitalism, constitutional problems of federal and state regulation, civil liberties in the twentieth century, the constitutional crisis of 1935–1937, and current problems of constitutional interpretation. Attention will be given to the judicial philosophies of the Federalist and Jacksonian judges, Field, Miller, Waite, Harlan, Holmes, Brandeis, Stone, Black, and Frankfurter. Three class meetings per week.

First semester. Professor Latham.

42f. Administrative Law. An introduction to the American system of legal control exercised by other law administering agencies than the courts, with special reference to doctrines developed by the Interstate Commerce Commission, Securities and Exchange Commission, Federal Trade Commission, and the National Labor Relations Board. The course deals with the formulation of legislative purposes and administrative policies; administrative and judicial responsibilities for the enforcement of agency programs; and the nature and extent of judicial control over administrative action. Three class meetings per week.

Limited to twenty-five students. First semester. Omitted 1972–73. Professor Ziegler.

43. Bureaucracy and Modern Society. Bureaucracy as the center of the problem of politics in modern society. Topics will include bureaucracy as a system of domination; the social preconditions and consequences of bureaucratization; the relation of administrative agencies to interest groups and political parties; and the administrative structure as a reflection of the culture and the political regime. Case studies on American bureaucracy will be used as a basis for cross-national comparisons. The inquiry will respond to the concerns about bureaucratic power and social organizations which have been raised by such writers as Marx, Weber, Tocqueville, and Gandhi, as well as contemporary social scientists. Three class meetings per week.

First semester. Omitted 1972–73. Professor Arkes.

44. Politics in Developing Nations. An examination of the role of politics in the process of modernization in the developing nations, with special emphasis on Africa. Particular attention is given to such topics as the legacy of colonialism, the fragmenting and integrating influences of traditionalism

and nationalism, the strengths and weaknesses of the single party system, the importance of elites and ideologies, the role of the military and bureaucracy, the problems of managing economic development, and the sources of stability and revolution. Three class meetings per week.

Second semester. Mr. Schloming.

46. International Law. The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government. Four class meetings per week.

Second semester. Professor Ziegler.

48. American Political Thought. A study of some of the major political ideas which have been formulated in response to American conditions from colonial times to the present. Connections with European thought will also be discussed. Three class meetings per week.

Second semester. Omitted 1972–73. Professor Kateb.

49. Political Theory from Plato to Machiavelli. A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Readings and discussion. Three class meetings per week.

First semester. Professor Kateb.

52. Problems in Public Policy and Administration. Selected topics in public policy and administration. Conference course.

Limited to twenty-five students with the consent of the instructor. Second semester. Omitted 1972–73. Professor Latham.

54. Problems of Political Change and Political Order. The political means for managing major processes of change in contemporary societies are examined in a comparative perspective. Intensive study of a single broad topic, varying from year to year. The special topic for 1972 will be "Political Leadership." Consideration may be given, according to the interests of the seminar members, to such topics as political biography, the psychology of leadership and psychoanalytic interpretations of politics, charisma and personalism in the politics of modernization, elitism, crisis leadership, social origins and the recruitment of party leadership, leadership style and its relationship to its group or institutional context.

Limited to fifteen students, with the consent of the instructor. Second semester. Mr. Schloming.

57. Problems of International Politics. Intensive study of a single topic, varying from year to year. The topic for 1972 will be Soviet-American relations.

Admission with the consent of the instructor. First semester. Professor Taubman.

59s. Contemporary Political Thought. A study of some of the major writers who have tried to come to terms with the political features of modernity. Among those read are the radical romantics; the existentialists; the inheritors of Marx and Freud; and the positivists and their enemies. Conference course.

Admission with the consent of the instructor. Second semester. Professor Kateb.

76. Senior Rite Seminar.

Second semester. Professor Latham.

D77–78. Honors Course. Double course, full course: totaling three full courses.

Elective for Seniors who have satisfed the necessary requirements. First and second semesters. The Department.

97. Special Topics. Independent Reading Course in "The Law and Poverty."

First semester. Professor Ziegler.

98. Special Topics. Independent Reading Course in "Criminal Justice in America."

Second semester. Professor Ziegler.

PSYCHOLOGY

Professors Coplin (Acting Chairman, first semester) and Koester*; Associate Professors Grose and Olvert (Chairman), and Visiting Associate Professors Eagly and Irons; Assistant Professors Heyduk and Sorenson.

Major Progam. Students majoring in psychology are required to elect eight full courses in psychology or closely allied fields. No more than one or two courses may be taken in allied fields. Psychology 11 should be elected no later than the sophomore year by students who plan to major in psychology.

A comprehensive examination is given to all majors during the second semester of the senior year.

Honors Program. Honors work consists of conducting a research project and taking an oral examination based upon a written thesis. Honor students elect Psychology 77 and 78 during the senior year.

11. Introduction to Psychology. An introduction to the nature of psychological inquiry with emphasis upon major determinants of psychological phenomena. Lectures and section meetings.

Elective for Freshmen. First semester. Professors Irons and Heyduk.

*On leave 1972–73.
†On leave first semester 1972–73.

11s. Introduction to Psychology. Same course description as Psychology 11. Elective for Freshmen. Second semester. Professor Olver.

20. Social Psychology. A social psychological analysis of individual and group behavior.

Requisite: Psychology 11. Elective for Freshman. Second semester. Professor Eagly.

21s. Personality. A study of attempts that have been made to provide an empirical and theoretical understanding of those characteristics of the person which are related to his distinctive ways of experiencing and behaving. A variety of theoretical models of the person will be examined and critically evaluated.

Requisite: Psychology 11. Elective for Freshmen. Second semester. Omitted 1972–73.

22f. Perception. A study of the environmental variables and underlying physiological processes which determine basic properties of human perception.

Requisite: Psychology 11. Elective for Sophomores. First semester. Omitted 1972–73.

An Inquiry into the Nature of Deviancy. See Inquiry Courses, p. 191.

Elective for Freshmen. First semester. Professors Buff, Coplin, Pitkin, and Schloming.

23. Research Design and Quantitative Methods. A study of psychological research procedures and quantitative methods, especially statistical procedures, that are used in the analysis and interpretation of findings obtained by means of experimental and empirical methods.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Denton.

24. Cognition. A study of cognitive processes with emphasis upon the techniques by which man represents his world and the consequences of representation for behavior.

Requisite: Psychology 11. Elective for Freshmen. Second semester. Omitted 1972–73.

25. Animal Learning. A consideration of the phenomena of animal learning and the application of this knowledge to the understanding and control of human behavior. Topics include classical conditioning and instrumental learning, punishment and aversive behavior, and theories of reinforcement.

Requisite: Psychology 11. First semester. Elective for Sophomores. Professor Sorenson.

26f. Physiological Psychology. A broad-based introduction to the neural bases of animal and human behavior. Included are topics such as sensory

and motor processes, motivation and emotion, and learning and memory. Class supplemented by laboratory experience.

Requisite: Psychology 11 or permission of instructor. Elective for Freshmen. Limited enrollment. First semester. Professor Sorenson.

27. Developmental Psychology. A study of human development with emphasis upon the general characteristics of various stages of development from birth to adolescence and upon general determinants of the developmental process.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Irons.

28f. Abnormal Psychology. A study of the etiology and psychodynamics of psychological deviance with a focus on the psychological diagnosis and psychotherapy of the behavior disorders.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Coplin.

29s. Human Sexuality. A study of the biological and psychological findings concerning the development and expression of sexuality.

Elective for Freshmen. Second semester. Professor Coplin.

30. Philosophy of Psychology. A consideration of the assumptions about man and his environment underlying psychological thought and the resulting constraints placed upon theory and research. Topics will include dualism, reductionism, determinism, the interactional model, the uncertainty principle, and the assumption of experimental isolability of behavior.

Requisite: Psychology 11. Elective for Freshmen. Second semester. Professor Heyduk.

31. Motivation. The course will examine various psychological conceptions of human action and its organization. Special consideration will be given to contemporary experimental theories of exploratory behavior and the dynamics of the behavior stream.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Heyduk.

34. Educational Psychology. A psychological analysis of the educational process. The course is designed both for prospective teachers and for those who have a general interest in the field of education.

Requisite: Psychology 11. Elective for Sophomores. Limited to fifteen students with the consent of the instructor. Second semester. Professor Grose.

35s. Comparative Psychology and Animal Behavior. An analysis of animal and human behavior and its evolutionary significance from the ethological

and comparative viewpoints. Prominent issues include the stimulus control of behavior, the concept of instinct as a determinant of behavior, and the role of basic drives in determining the behavior of man.

Requisite: Psychology 11. Elective for Freshmen. Second semester. Professor Sorenson.

36. Psycholinguistics. Selected topics in the psychology of language focusing on the psychological processes involved in speaking and understanding language and the consequences of such processes for perception, thought, and behavior.

Requisite: Psychology 11 and the permission of the instructor. Elective for Freshmen. Limited enrollment. Second semester. Professor Olver.

41. Psychology Seminar. Members of the department will occasionally offer seminars designed to give the student an opportunity to study a selected topic in depth.

Requisite: Psychology 21s. Elective for Sophomores with the consent of the instructor. First semester. Omitted 1972–73.

42. Psychology Seminar. Same type of course as Psychology 41.

Requisite: Psychology 11. Elective for Sophomores with the consent of the instructor. Second semester.

1. *SELECTED TOPICS IN MOTIVATION.* Theories of preference for complexity and their relationship to perceptual and cognitive development. Professor Heyduk.

2. *PSYCHOPHARMACOLOGY.* An introduction to the pharmacological analysis of behavior. Major emphasis will be placed on the actions of drugs on the central nervous system and consequently on behavior, and the use of drugs in animal experimentation as a powerful analytical tool.

Requisite: Physiological psychology and the consent of the instructor. Professor Sorenson.

4. *GROUP PROCESS AND BEHAVIOR CHANGE.* A number of theories of group functioning will be examined, including the works of Freud, Moreno, Bion, Rogers, Berne, and Perls. Special emphasis will be placed on attempts to use group functioning to induce behavior change as in the group therapies, sensitivity training, encounter, and marathon groups. Professor Coplin.

77, 78 or D78. Senior Honors Course. Elective for senior majors in psychology who have received departmental approval. First and second semesters.

97, H97; 98, H98. Independent Study or Research. This course is open to qualified students who desire to engage in independent reading on selected

topics or conduct research projects. Preference will be given to those students who have done good work in one or more departmental courses beyond the introductory level. A full course or a half course.

Elective for Juniors with the consent of the instructor. First and second semesters.

RELIGION

Professors Mudge and Pemberton; Assistant Professors Lee and Wills.

Major Program. Majors in Religion are required to take Religion 11, Introduction to the Study of Religion, and seven additional semester courses in Religion or related studies approved by the Department.

All majors are required, early in the second semester of the senior year, to take the comprehensive examination in Religion which will deal with the history and phenomenology of religious traditions, and selected topics from the fields of Bible, religious ethics, historical theology and philosophy of religion. Further information may be obtained from the members of the Department.

Honors Program. Honors in Religion shall consist of Religion 75 and the conference courses, Religion 77 and D78, taken in conjunction with a major in Religion (six additional semester courses are required for honors majors); satisfactory fulfillment of the general honors requirements of the College; satisfactory performance in the comprehensive examination; and the satisfactory preparation and oral defense of a scholarly essay on a topic approved by the Department.

11. Introduction to the Study of Religion. A systematic examination of the phenomenon of religion, its social, cultural, psychological, and personal ramifications, and the facts of similarity and diversity. Two case studies from non-Western and Western settings.

Elective for Freshmen. First semester. Professor Pemberton.

12. Asian Religion. An introduction to a comparative study of man's religious understanding. The general problem of the meaning and structure of human existence will be explored as the basis for understanding our own and other men's religious faith. The course will focus upon the meaning of human existence as developed in India in the Hindu and Buddhist traditions and the transformation of these views in the interaction of the Buddhist tradition with Chinese and Japanese culture. Contemporary (Western) religious understandings and reinterpretations of Indian religion, Zen Buddhism, among others, will also be considered. Readings, discussions, films, lectures, student reports.

Second semester. Professor Lee.

Human Suffering and the Quest for Meaning. See Colloquia, p. 185.
Second semester. Professors Babb, Lebeck, and Pemberton.

16. The Western Religious Tradition. An examination of the development of Jewish and Christian thought from the Talmud and the Church Fathers to the present. Readings will include selections from the Talmud, St. Augustine, Maimonides, St. Thomas Aquinas, Dante, the Reformers, and later Jewish and Christian writers.

Elective for Freshmen. Second semester. Professor Pemberton.

21. The Old Testament. Foundations of the Hebrew-Christian tradition in the history, literature, and thought of the Old Testament. Emphasis is placed both on the biblical materials themselves and on the varying methodologies of contemporary Old Testament interpretation.

First semester. Professor Mudge.

22. The New Testament. Foundations of the Christian tradition in the history, literature, and thought of the New Testament. Emphasis is placed both on the biblical materials themselves and the varying methodologies of contemporary New Testament interpretation.

Requisite: Religion 21 or consent of the instructor. Second semester. Omitted 1972–73. Professor Mudge.

23. Religion, Culture and Society in Japanese History. An attempt to interpret as a whole a significant example of human experience in Asia by an examination of the interaction of religious, aesthetic, social and political dimensions in Japanese history and literature. Such themes as the mytho-religious character of the socio-political order in early and late contexts, the influence of Buddhism and Chinese culture on the Japanese self-understanding and society, the impact of Western technology and ideas on traditional Japanese values and social structure, and the search for personal meaning in modern Japan will be explored. Readings, discussions, films, lectures, student reports.

First semester. Professor Lee.

24. Sociology of Religion. A study of the interaction of culture (religious symbol system) and society. Examples from primitive, archaic, historic and modern societies (including non-Western societies). A theoretical framework will be developed. The problem of modernization, secularization, social change and the "Protestant Ethic" thesis will be reconsidered in the light of contemporary sociology (Bellah, Berger, Birnbaum, Eisenstadt, Geertz, Luckmann, Parsons, Shils). Readings, discussions, lectures, student reports.

Requisite: Sociology 11 or Religion 11 or consent of the instructor. Second semester. Professor Lee.

32. Mysticism and the Moral Life. Examination of autobiographical, theoretical, and devotional documents pertaining to inner piety and the search for God as a response to life in the twentieth century. Writings of Thomas Merton, Howard Thurman, Martin Buber, and Abraham Heschel will be discussed to explore the relation between the languages of Catholicism, Protestantism, and Judaism and an individual's sense of God's reality. Special attention will be given to a comparison of poetry and prayer, questions of symbolism and religious experience, and more generally to the bonds between esthetic, spiritual, and moral sensitivity.

Elective for Sophomores. Second semester. Professor Kaplan.

33. Philosophy of Religion. An examination of some basic religious concepts in the light of philosophical analysis. Among topics to be considered are the nature and status of religious knowledge, the existence and nature of God, and some religious views of human nature and conduct.

Requisite: Philosophy 11 and either Philosophy 17 or Religion 16 are suggested. Elective for Sophomores. First semester. Professor Pemberton.

34. Religion in America. An examination of the intellectual and social history of religion in America, and its interaction with the changing cultural setting. Intensive study of black religion and its inter-action with the dominant religious structures.

Requisite: Religion 11 or consent of the instructor. Elective for Juniors. Second semester. Omitted 1972–73.

35s. Contemporary Religious Thought. The problem of transcendence in the West since the Enlightenment. Readings in such authors as Kant, Schleiermacher, Feuerbach, Kierkegaard, Nietzsche, Von Harnack, William James, Tillich, and the theologians of the "death of God." A choice of readings among authors now at work. A seminar course with occasional lectures.

Requisite: Religion 11 or consent of instructor. Elective for Juniors. Second semester. Professor Mudge.

36. Christian Ethics in Contemporary Context. The social thought and action of modern Christian theologians and churchmen, in a setting characterized by the revolution in scientific technology, the revolutionary movements of the Third World, the intractability of international and intergroup hostilities, and the making of counter-cultures.

Requisite: Religion 11 or 16, or consent of the instructor. Elective for Juniors. Second semester. Professor Wills.

62. Theology and the Phenomenological Movement. The dialogue between theologians and such writers as Hegel, Husserl, Sartre, Marcel, Heidegger, Dilthey, Polanyi and Ricoeur. Implications for the social sciences and social ethics. A seminar course.

Requisite: Consent of instructor. Second semester. Professor Mudge.

Introduction to Black Religion in Africa and the Americas. See Black Studies 62.

Admission by consent of the instructor. First semester. Professor Davis and staff.

75. Methodology in the Study of Religion. (Three-College Seminar. Same course as Religion 300a, Smith, and Religion 390f, Mount Holyoke). Methods of interpreting religious phenomena; the integration of different disciplines in the study of religion. Topic for 1972: Interpreting Hindu and Christian religions through the Bhagavad-gita and selected portions of the New Testament. One meeting a week. The seminar meetings will be distributed among the three campuses throughout the term.

Requisite: Senior standing and consent of one of the instructors. First semester. Professors Lee (Amherst), Yamashita (Mount Holyoke), and Hudson (Smith).

77. Conference Course. Required of candidates for honors in religion: Preparation and oral defense of a scholarly essay on a topic approved by the Department. Detailed outline of thesis and adequate bibliography for project required before Thanksgiving; preliminary version of substantial portion of thesis by end of semester.

Elective for Seniors with the consent of the instructors. First semester. The Department.

D78. Conference Course. Required of candidates for honors in religion: A continuation of Religion 77. A double course.

Elective for Seniors with the consent of the instructors. Second semester. The Department.

97. Special Topics. Independent Reading Course. Reading in an area selected by the student and approved in advance by a member of the Department. First semester. The Department.

98. Special Topics. Independent Reading Course. Same description as Religion 97. Second semester. The Department.

ROMANCE LANGUAGES

Professors Carre (Chairman), Giordanetti*, and Johnson; Assistant Professors Kaplan, Kent*, and A. Ryerson; Mr. Maraniss, Mme Watkins and assistants.

*On leave 1972–73.

French

Major Program. The Department of French aims at flexibility and response to the plans and interests of the French major within a structure that affords diversity of experience in French literature and continuous training in the use of the language.

A major in French (both *rite* and honors) will normally consist of (a) eight courses within the Department or (b) six courses within the Department and two related courses chosen with departmental approval. All courses offered by the Department above French 5 may count for the major. The one rule of selection is that two of the six or three of the eight courses submitted for the major must be chosen from offerings in French literature before the nineteenth century.

Each major is encouraged to follow at least one independent reading course in the Department as part of his major program.

Upon request to the Department by students (majors or non-majors) a group seminar may be organized in any form and concerning any topic agreed upon by the participating students and teachers.

The minimum level of competence in the language for a French major is that represented by superior work in French 8 or by passage of a proficiency examination set by the Department, normally by the end of the sophomore year. To develop further his expressiveness and clarity in written French, the major must choose a) to take a special course in French stylistics; b) to take a literature course in which particular attention will be given to the written work of the French majors; or c) to meet regularly with a member of the Department to work on problems of writing.

The comprehensive examination—written and oral—required of all majors, is given in March of the senior year. The areas of examination in the comprehensive will be chosen normally during the junior year by the individual major in consultation and agreement with his major advisor.

Honors Program. In addition to the major program described above, a candidate for departmental honors must present a thesis and sustain an oral examination upon the thesis. He will elect D78 in the second semester of his senior year.

Combined Majors. Course programs for a joint major in French and Spanish or French and other languages are arranged by the student in consultation with the instructors in those languages.

Interdisciplinary Majors. Interdisciplinary majors are established through the College Committee on Interdisciplinary and Special Study with the endorsement and cooperation of the Department or with the approval of individual members of the Department.

Foreign Study. A program of study approved by the Department for a junior year in France has the support of the Department as a significant means of enlarging the major's comprehension of French civilization and as the most effective method of developing mastery of the language. Four Amherst French courses will be the minimum required for a major who has spent a junior year abroad.

1. **Elementary Course.** Grammar, pronunciation, oral practice. Three hours a week for explanation and demonstration, three hours a week in small sections and laboratory for oral practice.

Elective for Freshmen. First semester. Professor Ryerson, Mme Watkins, and assistants.

3. **Intermediate Course.** Review of grammar and pronunciation; oral practice. Reading and analysis of literary texts. Three hours a week for explanation and demonstration, three hours a week in small sections and laboratory for drill in aural comprehension of the language.

Elective for Freshmen. First semester. Mme Watkins and assistants.

3s. **Intermediate Course.** Same description as above.

Elective for Freshmen. Second semester. Mme Watkins and assistants.

5. **Language and Literature.** The purpose of the course is to bridge language competence and the critical appreciation of French literature in its original form. Training in fluent reading and in aural comprehension, practice in the fundamentals of oral and written expression. Reading of significant fiction, plays, and poetry from the modern period. Three hours a week in class and three hours a week in small sections and laboratory for oral and aural drill. Conducted in French.

Elective for Freshmen. First semester. Professors Kaplan, Ryerson, and assistants.

5s. **Language and Literature.** Same description as above.

Elective for Freshmen. Second semester. Professor Carre and assistants.

8. **Composition and Conversation.** A review of French grammar with practice in set translation and free composition; oral reports and discussion on selected topics. Three hours a week of composition and two of oral practice.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. Second semester. Professor Carre and assistants.

10. **Phonetics and Prosody.** Theory and practice of French phonetics. Training in the reading of French literary texts and in the use of current spoken French with emphasis on the distinctions between the two modes of discourse. A study of the elements of French prosody. Conducted in French. Recommended for majors and advanced students in French. One and one-

half hour seminar meeting a week with additional laboratory assignments and analysis of individual pronunciation in private tutorials.

Requisite: Limited to twelve students with consent of instructor. Second semester. Mme Watkins and assistants.

11. Introduction to French Literature through the Seventeenth Century. Reading and discussion of selected texts from *La Chanson de Roland* through the Age of Classicism. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. First semester. Professor Ryerson.

12. Introduction to French Literature since the Seventeenth Century. Reading and discussion of selected texts. Concentration will be on the eighteenth and nineteenth centuries with, as time permits, some introductory materials from the twentieth century. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. Second semester. Omitted 1972–73. Professor Giordanetti.

13s. Major French Novelists. Choice of novelists and works may vary each year. In 1972–73, selected works of Constant, Balzac, Flaubert, and Stendhal will be read and discussed in the context of the theme: the conflict of the individual's double relationship to himself and to the society. Particular attention will be given to the authors' critiques of society and their portrayal of the quest for personal identity. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. Second semester. Professor Ryerson.

15. Aspects of Modern Literature. An introduction to modern French literature with emphasis on the ways in which reality is perceived by representative novelists and poets of the twentieth century: Giono, André Breton, Malraux, Camus, and Sartre; Paul Eluard, René Char, Aimé Césaire, and Léopold Senghor. Three hours of classroom work a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. First semester. Professor Carre.

15s. Aspects of Modern Literature. Same description as above.

Elective for Freshmen. Second semester. Omitted 1972–73.

25s. French Literature of the Renaissance. Readings in Rabelais, Montaigne and the poets of the sixteenth century. Conducted in French. Three hours of classroom work a week.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Omitted 1972–73. Professor Kaplan.

Eighteenth Century Foundations of Modern Poetry. See English 25s(12).

Requisite: English 11 or the consent of the instructor. Elective for Freshmen. Second semester. Miss Fessenden.

27. French Classical Literature. Tragic visions of man, society, and God. Selected tragedies of Corneille and Racine, works of Descartes, the *Pensées* of Pascal, and the *Maximes* of La Rochefoucauld will be read. Discussion will focus on their treatment of human passions, the relation of the individual to society and to God. The language and structure of the works will also be related to important ideological, aesthetic, and theological issues of the time. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. First semester. Professor Kaplan.

28. French Comic Theatre. Study and discussion of the plays, dramatic theory, and practice of four major creators of the French comic theatre: Molière, Marivaux, Beaumarchais, and Musset. Conducted in French. One three-hour seminar meeting a week.

Requisite: Satisfaction of the language requirement in French. Second semester. Professor Carre.

31. The Age of the Enlightenment. A study of the literature of the eighteenth century from the Regency to the Revolution, its relations to the intellectual, esthetic, and social changes of the Enlightenment, the development of new literary forms. Particular emphasis will be given to Voltaire, Rousseau, and Diderot. One three-hour meeting a week; discussion, oral reports, one term-paper on individual related topics.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Omitted 1972–73. Professor Giordanetti.

33. The Romantic Imagination. A study of the origins and development of the European phenomenon of Romanticism of the early nineteenth century. The movement will be considered in several of its manifestations, in music, painting and architecture in addition to literature. One three-hour seminar a week; one term paper on individual related topics. Conducted in French.

Enrollment limited to fifteen students. Please consult instructor before enrolling. First semester. Omitted 1972–73. Professor Giordanetti.

35s. Tradition and Anti-Tradition in the Twentieth Century French Theater. An analysis of plays and dramatic theories: Claudel and Giraudoux as

representatives of the tradition; Jarry, Artaud, Ionesco, and Beckett as makers of a new theater. Three hours of classroom work a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Omitted 1972–73. Professor Carre.

36. Major French Prose Writers. Choice of writers will vary from year to year and will not duplicate French 13. Metaphysics, morality and art as seen by various thinkers through the history of French letters, from Pascal and LaRochefoucauld to Bergson, Camus and Fanon; relevant prose selections from such poets as Baudelaire and Valéry, and thoughts on art from Proust and Malraux. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Omitted 1972–73.

37. Camus and Sartre. Existentialism and *engagement*. Readings and discussion of the major works, literary and theoretical, of the two authors, concluding with an examination of the controversy that opposed Camus to Sartre and the *Temps Modernes* group on the nature of the artist's commitment to society. Three hours of classroom work a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Professor Carre.

H38. Mauriac. Readings in the works of François Mauriac. One hour of classroom work a week. Conducted in French. A half course.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Omitted 1972–73.

40. Modern French Poetry. Study of the development of poetic styles and visions from Romanticism to Symbolism, based on an examination of important works by Hugo, Baudelaire, Rimbaud, Lautréamont, Mallarmé, and Valéry. Three meetings a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. Second semester. Professor Kaplan.

41. Apollinaire and Modern Movements in Art and Literature. A study of Guillaume Apollinaire as poet, theoretician, spokesman and moving force of the new art in France during the first two decades of the twentieth century. An inquiry into the relationships of art and literature with particular attention to Cubism and Futurism. Three hours of classroom work a week. Conducted in French.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Omitted 1972–73. Professor Carre.

42. Proust and the Interpretive Sensibility. A study of *A La Recherche du Temps Perdu* in the original and in translation, as an interpretation of man's relationship to society on the one hand and man's relationship to nature on the other. A central question through the course will be: What, according to Proust, makes reality meaningful? Two meetings a week. Conducted in English. Students with a reading knowledge of French should read the first volume in French; only advanced students in French should forego all translation.

Elective for Sophomores (and Freshmen with permission of the instructor). Second semester. Professor A. Ryerson.

77. Conference Course for Seniors.
First semester. The Department.

D78. Conference Course for Seniors. A double course.
Second semester. The Department.

97, H97. Special Topics. Independent Reading Course. Full or half course. Approval of the department chairman is required. First semester.

98, H98. Special Topics. Independent Reading Course. Full or half course. Approval of the department chairman is required. Second semester.

Spanish

Major Program. The student majoring in Spanish must elect Spanish 21 and 22(22f) and the equivalent of six other semester courses (exclusive of Spanish 1 and 3) offered or approved by the Department. He must demonstrate a proficiency in spoken and written Spanish; at the discretion of the department, he may be required to take Spanish 14 or an equivalent course. He must also pass a comprehensive examination given by the Department in January of his senior year. A maximum of two half courses may be credited toward the major.

Honors Program. Same as above, except that the candidate for honors must elect in addition Spanish 77 and Spanish D78.

Combined Majors. Both *rite* and honors majors may be taken in combination with other fields, e.g. Spanish and French, Spanish and Religion, Spanish and Fine Arts. Plans for such combined majors must be approved in advance by representatives of the departments concerned.

Study Abroad. Students majoring in Spanish are encouraged to spend a summer, a semester, or a year studying in Spain or Spanish America. Plans for study abroad must be approved in advance by the Department.

1. Elementary Spanish. Grammar, pronunciation, oral practice. Seven hours a week in class, section, and laboratory.

First semester. Professor Johnson.

3. Intermediate Spanish. Review of grammar and pronunciation; oral practice. Reading and analysis of literary texts. Six hours a week in class, section, and laboratory.

First semester. Mr. Maraniss.

3s. Intermediate Spanish. Same description as Spanish 3.

Second semester. Mr. Maraniss.

11. Introduction to Hispanic Literature. Readings in modern Spanish and Spanish American literature.

Elective for Freshmen. First semester. Mr. Maraniss.

12. Pablo Neruda. An exploration of the Spanish-speaking world through reading and discussion of his prose and poetry. Emphasis on language learning. Conducted in Spanish.

Elective for Freshmen. Second semester. Professor Johnson.

14 or H14. Spanish Prose Composition and Style. This course is designed to strengthen and refine the student's mastery of the Spanish language. Practice in free composition and in translation of examples of a variety of styles. One or two meetings, depending upon student interest and need. A full or a half course.

Requisite: Spanish 11 or permission of the instructor. Second semester. Mr. Maraniss.

21. The Dynamics of Spanish Culture. An interdisciplinary study of Spanish consciousness. Topics for reading and discussion will include: grotesque literature, the hero and antihero, ideological commitment and commentaries on Velasquez, El Greco and Goya. Conducted in Spanish.

Requisite: Spanish 11, or permission of the instructor. First semester. Omitted 1972–73. Professor Kent.

22f. Indian Civilizations. The literature, art, music, myth, and history of the Indian civilizations of Latin America, with emphasis on the Olmecs, Mayas, and Incas. Their significance in contemporary Spanish America will be studied in the works of Rulfo, Asturias, and Arguedas. Conducted in Spanish.

Requisite: Reading knowledge of Spanish. First semester. Professor Johnson.

36. Readings in Seventeenth Century European Theater. Selected plays of Lope de Vega, Calderón de la Barca, Tirso de Molina, Corneille, Racine, and Shakespeare will be read in the original languages whenever possible. Through close readings of representative works, participants will approach an understanding of the "ideas of a theatre" underlying the classic drama of Spain, France, and England. Conducted in English.

Second semester. Mr. Maraniss.

42. The Spanish Ballad in Oral Literature. A close study of the *romancero* in conjunction with other traditional forms of Spanish expression. Special attention will be given to comparison with the English ballad. Conducted in Spanish.

Requisite: Spanish 21, or permission of the instructor. Second semester. Omitted 1972–73. Professor Kent.

43. Cervantes. *Don Quijote de la Mancha* and some exemplary novels will be read in Spanish or in translation, depending on the student's language proficiency. Cervantes' novelistic technique, a new departure in European prose, will receive special attention. Students are invited to deal with Cervantes in connection with another writer whom he may have influenced; e.g., Fielding, Sterne, Flaubert or Mark Twain. Conducted in English.

Elective for Sophomores (and Freshmen with the consent of the instructor). First semester. Mr. Maraniss.

46. The Picaresque Novel. A comparative study of the picaroon in European and American literature with special attention given to the Spanish tradition. Readings to include the *Lazarillo*, the *Guzmán*, the *Buscón* and novels by Grass, Mann, Ellison, Twain, and Fielding. Conducted in English with readings in the original according to student ability.

Elective for Sophomores. Second semester. Omitted 1972–73. Professor Kent.

47s. The Myth and Literature of Imperial Spain. The response of literature to the historical and social conditions of Hapsburg Spain. Selected works of Fray Luis, Quevedo, Lope, Góngora and others will be discussed as individual solutions to the dilemmas of the "Golden Age." Conducted in Spanish.

Requisite: Spanish 21 or 22(22f) or permission of the instructor. Second semester. Omitted 1972–73. Professor Kent.

48. Latin American Prose and Poetry. Neruda, Vargas Llosa, García Márquez, Asturias, González León, Rulfo. Conducted in Spanish.

Requisite: Spanish 22f or permission of the instructor. Second semester. Professor Johnson.

77. Conference Course for Seniors. Preparation of an honors thesis. The Department.

D78. Conference Course for Seniors. A double course. Preparation of an honors thesis. The Department.

97, H97, 98, H98. Special Topics. The department calls attention to the fact that Special Topics courses may be offered to students on either an individual or group basis. Students interested in forming a group course on some aspect of Spanish life and culture are invited to talk over possibilities with a representative of the department. When possible, this should be done several weeks in advance of the semester in which the course is to be taken.

RUSSIAN

Assistant Professors Fischer and Peterson; Mr. Davidson.

Major Program. The major must include the following courses: Russian 11, 12, 21, 22 plus four upper-level Russian courses offered in the Department or at one of the neighboring colleges. (Russian 1 through 4 will not count toward the major.)

It is recommended that the major take History 41–42 (Survey of Russian History) and at least two or three courses in one other literature (preferably English, French, or German). In addition to demonstrating a proficiency in spoken and written Russian, the major will be required to pass a comprehensive examination during the second semester of his senior year. A reading list will be provided by the Department to guide him in preparing for the examination.

Honors Program. In addition to the requirements for the major program, the honors candidate must take Russian 77–78 during his senior year and must prepare a thesis on a topic approved by the Department.

Interdepartmental Program: A student may be sufficiently interested in Russian to devote considerable time and effort to the study of the subject while not necessarily feeling inclined to major in it. If this is the case, he should be aware of the possibility of declaring an interdepartmental major under which he could combine the study of Russian with that of another discipline, as e.g. History, Political Science, Economics, another language and/or literature, etc. Before deciding on an interdepartmental major, the student should, of course, consult the College Bulletin (the pertinent section under Degree Requirements) in addition to discussing his academic plans with the Departments involved.

Study Abroad. Any student who has studied Russian for two years or more and wishes to put to the test his or her ability to operate in the language may take advantage of the Interterm in Russia. This is jointly organized by the Russian Departments at Amherst and Smith, utilizing the long semester break recently introduced into the academic calendar, to make possible travel to Russia at minimal cost. The participating students will be accompanied by a faculty member; the close to four weeks spent in Russia will be evenly divided between Leningrad and Moscow. While not a formal academic activity, the Interterm in Russia should be considered to fall logically between Russian 11 and Russian 12, and thus to be an aspect of Studies in Russian Language and Culture. Accordingly, participation may be limited to students who are either enrolled in Russian 11 or can show equivalent (or superior) proficiency in the language.

Students who are interested in spending more than three to four weeks in the Soviet Union are urged to consult with the Russian Department about the Summer and/or Semester Programs at Leningrad University which are open to qualified American undergraduates.

1. First-Year Russian. Grammar, pronunciation, oral practice. Five hours per week in class. In addition students may be required to use the language laboratory.

Elective for Freshmen. First semester. Mr. Davidson.

2. First-Year Russian. Continuation of Russian 1.

Requisite: Russian 1 or equivalent. Elective for Freshmen. Second semester. Mr. Davidson.

3. Second-Year Russian. Intensive review and further study of grammar. Emphasis on development of aural comprehension and oral fluency. Reading and analysis of selected texts. Five class hours per week. In addition, students may be required to use the language laboratory.

Requisite: Russian 2, or equivalent. Elective for Freshmen. First semester. Professor Fischer.

4. Second-Year Russian. Continuation of Russian 3.

Requisite: Russian 3, or equivalent. Elective for Freshmen. Second semester. Professor Fischer.

11, H11. Studies in Russian Language and Culture. Reading and discussion of selected works of Russian prose and poetry, both classical and modern. Included among the readings will be literary criticism, as well as historical, philosophical, and publicistic writings. Conducted mostly in Russian. (Systematic vocabulary building; selective grammar review; oral and written reports.) Three fifty-minute or two eighty-minute sessions per week; one additional laboratory hour may be required. Full or half course.

Requisite: Russian 4 or equivalent. First semester. Professor Fischer.

12, H12. Studies in Russian Language and Culture. Continuation of Russian 11.

Requisite: Russian 11. Second semester. Mr. Davidson.

21. Survey of Russian Literature, Part I. After a brief consideration of Russian medieval literature (including the *Igor Tale*), the course will focus primarily on the evolution of nineteenth century prose forms through Tolstoy and Dostoevsky, with special emphasis on the wide variety of approaches to the novel from Pushkin's *Eugene Onegin* to such monuments as *Crime and Punishment* or *War and Peace*. Also major novels by Lermontov (*Hero of Our Time*), Gogol (*Dead Souls*), Turgenev (*Fathers and Sons*), et al. Social and philosophical background, both Russian and European. Readings in translation or the original, depending on language proficiency. Two class sessions per week.

Elective for Freshmen and Sophomores. First semester. Omitted 1972–73. To be offered 1973–74. Mr. Davidson.

22. Survey of Russian Literature, Part II. Major writers and trends in Russian literature from about 1860 on into the twentieth century. Readings will include selected works of Tolstoy, Dostoevsky, Chekhov, Gorky, the Russian Symbolists and 'Decadents', as well as Vladimir Nabokov. Readings in translation or the original, depending on language proficiency. Two class sessions per week.

Elective for Sophomores. Second semester. Professor Fischer and Mr. Davidson.

23. Russian Literature of the Soviet Period. In dealing with the total impact of the Revolution and the Communist State on Russian literature, the course will examine Marxist-Leninist thought on the function of literature, the evolution of the official Soviet policy on the arts ("Socialist Realism"), and the frequently tragic conflict between the dynamics of ideology and of art. Special emphasis will be placed on the post-Stalinist literary revival, recent examples of dissent among Soviet writers (Solzhenitsyn *et al.*), and the emergence of an underground literature ("Samizdat"). Readings in translation or the original, depending on language proficiency. Two class sessions per week.

Elective for Sophomores. First semester. Professor Fischer.

25s. Seminar on One Major Russian Writer. The subject will vary from year to year, but will be other than Tolstoy or Dostoevsky. For 1972–73, the author will be Vladimir Nabokov. Readings spanning the entire career of Nabokov, both as a Russian and English (or "AmeroRussian") author, including his autobiographical and critical writings, as well as his fiction. Special attention will be given to the theme of exile and to Nabokov's celebration of imagination and memory, with comparisons to the "world-build-

ing" activities of the creative mind in such writers as James, Proust, and Borges. Readings in English (or Russian, as proficiency permits).

Elective for Sophomores. Limited to twenty students. Second semester. Professor Peterson.

27. **Fyodor Dostoevsky.** Dostoevsky, primarily as novelist, but also as philosopher and social thinker. Consideration of the development of Dostoevsky's art from its epistolary beginnings through the creation of new literary forms: the so-called "novel-tragedy" and the polyphonic novel. The evolution of primary ideological strains, including, among others, the transformations of the "superman" from rationalist to revolutionary; the psychological elaborations on the themes of criminal, buffoon, and saint; Slavophilism; freedom and morality. Conducted as a seminar; comparative projects (e.g., involving Kafka, Camus, Faulkner and others) encouraged for those students with backgrounds in other literatures. Readings in translation or Russian, as proficiency permits. One two-hour meeting per week.

Elective for Freshmen and Sophomores. First semester. Mr. Davidson.

28. **Leo Tolstoy.** Study of selected major works both fictional and doctrinal, as well as of a few relatively lesser known writings in the context of Tolstoy's thought and literary heritage. Investigation of the Enlightenment antecedents, the problems of historical consciousness, non-violent resistance to evil, as well as structural and stylistic analyses of specific works. Readings in translation or the original, depending on language proficiency. Two class sessions per week.

Elective for Sophomores. Second semester. Omitted 1972–73. Mr. Davidson.

33. **Advanced Studies in Russian Language and Culture, Part I.** Study of topics and texts of general cultural significance; discussion of prominent figures and current events in the artistic and intellectual life of the Soviet Union. Special subjects may include a systematic survey of Russian poetry and a close reading of a major nineteenth century novel. Sessions on phonetics, intonation, stylistics, problems in the structure of Russian. Three class meetings per week plus additional hours for conversation and language laboratory. Conducted entirely in Russian.

Requisite: Russian 12 or equivalent. First semester. Mr. Davidson.

34. **Advanced Studies in Russian Language and Culture, Part II.** A continuation of Russian 33.

Second semester. Professor Fischer.

77. **Senior Honors Course.** Meetings to be arranged.

Open to, and required of, seniors writing a thesis. First semester. The Department.

78. Senior Honors Course. Meetings to be arranged.
Open to, and required of, seniors writing a thesis. Second semester. The Department.

97, H97. Special Topics. Independent Reading Course.
First semester. The Department.

98, H98. Special Topics. Independent Reading Course.
Second semester. The Department.

Slavic Studies. See page 199.

Sociology. See page 74.

Spanish. See page 176.

Interdisciplinary and Special Programs

AFRO-AMERICAN AND BLACK STUDIES

Amherst College courses are listed under Black Studies. A list of appropriate Five-College courses may be obtained in the Office of the Registrar.

ASIAN STUDIES

A number of courses appropriate to an interdisciplinary major in Asian Studies are offered at Amherst and at neighboring institutions. The number of these has, in recent years, become too large to list here in full. Therefore, interested students are referred to a separate printed list of the many Asian courses available in the five-college area during the academic year 1972–73. This list is available from faculty members in the Asian field or in the offices of the Registrar and the Dean of the Faculty.

A general statement on Five College courses will be found on page 60 of this Bulletin. A complete list of course descriptions and enrollment information may be obtained from the Registrar.

COLLOQUIA AND INQUIRY COURSES

Colloquia

12. Colloquium in Modern Experimental Science. The colloquium will provide for the exchange of experimental ideas among students and faculty in biology, chemistry, geology, and physics. There will be reading, discussion and experimental work directed toward the formulation of interesting problems and the application of modern techniques for their solution. Topics will evolve from year to year. For 1972–73, the general areas being considered are: 1) the determination of molecular weight, size, and structure; 2) environmental studies: the major and minor constituents of the atmosphere and natural waters; 3) electrical signals; and 4) nuclear clocks, thermometers, and tracers. The facilities of all four departments will be accessible to

the group for experiments involving microscopy, optical and infra-red spectroscopy, centrifugation, x-rays, oscilloscopes, mass spectrometry, gas chromatography, and nuclear counting.

Requisite: Permission of the course chairman. Elective for Juniors and Seniors who have completed at least three semester courses toward a major in any one of the four disciplines. Limited to fifteen students. Second semester. Professors Benson (Chairman), Brophy, Fisher, Godchaux, Hove, Kuntz, Tinker, Valberg, and Waggoner.

14. Human Suffering and the Quest for Meaning. An examination of the conceptions and responses to misfortune and suffering (the experiences of chaos, disorder, the daemonic, and of integration, order, and value), corporate and individual, as embodied in the literature, religious ideology and ritual of three traditions: the ancient Greek, folk and classical variants of Hindu civilization, and the Yoruba of South Western Nigeria.

Second semester. Professors Babb, Lebeck, and Pemberton.

16. Colloquium in Environmental Chemistry and Physics. An investigation of the interrelationships among pure science, applied science and technology and the quality of everyday life. A study of energy resources, methods of transformation of energy from one form to another, and in particular a study of methods of generating electrical energy. Technical and economic feasibility of various methods, and the effects of energy production on the environment and on public health. The course is intended for both non-science and science majors. First and second laws of thermodynamics, basic nuclear chemistry and physics, nuclear fission and fusion, the measurement of radioactivity and its biological effects. Independent investigation by individual students of other related environmental problems. Emphasis will be placed on gaining a quantitative understanding of environmental problems, on identifying existing gaps in knowledge, and on providing a foundation for continuing informed discussion. Two one and one-half hour meetings per week. Occasional laboratory work.

Enrollment limited. Second semester. Professors Romer and Yost.

18. Intelligent Life in the Universe. An analysis of the question of whether intelligent civilizations exist elsewhere in the universe, and how we might discover and communicate with them. Topics covered include the origin of the solar system, stellar evolution and element synthesis, the evolution of the earth, the abiotic origin of biological molecules, the evolution of life, instinctive versus intelligent behavior, the origin of man, and the possibility of life elsewhere in our solar system. More speculative topics include artificial intelligence, supercivilizations and our evolutionary future. Three one-hour meetings per week.

Requisite: Permission of the instructors. Enrollment limited. Second semester. Professors Greenstein and Zimmerman.

19. The Natural Science of the Human Organism. The course will consider the major physical and physiological principles involved in human birth, life, and death. Selected topics will inquire into the underlying physiology that forms our understanding of cells, organs, organ systems, and organisms as they respond to a changing environment. Quantitative reasoning will be the touchstone for elucidating body function from the macroscopic level to the microscopic and atomic levels. This analysis depends on recognizing the physical laws behind the life processes, the spatial scale, and the temporal scale of living organisms. A major goal will be to gain some insight into the operation, the organization, and feedback regulation of the human organism.

Requisite: Satisfactory performance in a previous college-level natural science course. Physics 13 and 14 are strongly recommended for an in-depth approach to the subject. Alternate qualifications such as a high-school physics, chemistry, or biology course should be discussed with the instructors. First semester. Professors Karfunkel and Valberg.

22. Colloquium in Literature, Art and Society in Renaissance Italy. A study of relationships between literature, the fine arts, philosophy, and the political and social development of the Italian towns and the papacy from the thirteenth to the sixteenth centuries. Materials will include such representative authors as Dante, Boccaccio, Machiavelli, Alberti, and such representative artists as Michelangelo, Donatello, Brunelleschi. These relationships, and the concept of a renaissance, will also be studied by examining the life and works of such individuals as Abelard, Ezra Pound, and Malcolm X. Two two-hour meetings per week.

Elective for Juniors. Admission by consent of the instructors. Second semester. Professors Cheyette and Chickering.

30. Germany Between the Two World Wars. An interdisciplinary exploration of political, social, and cultural movements during the Weimar Republic and the first half of the Third Reich. Readings in literary sources from the period in English translation, as well as more recent interpretive studies; also consideration of trends in the non-literary arts. History 23, History 31; or prior study of modern German literature is advisable. One seminar meeting per week. Individual reports on topics of special interest.

Requisite: Written consent of the instructors. Limited to twenty students. Second semester. Omitted 1972–73. Professors Lees and White.

32. Historical Problems and Economic Analysis. Examination of selected problems of historical interpretation with a view to clarifying the approaches to the understanding of human behavior used by historians and economists, and the relationship between them. The colloquium will discuss not only such "classic" problems as the Pirenne thesis on the origins of the European economy and the Weber thesis on protestantism and capitalism, but also such more recent controversies as those over the burden of the Navigation

Acts, and the debate over the profitability of slavery. Each student will prepare an extended essay and may be asked to report on his work to the group. One class meeting per week.

Requisite: Permission of the instructors. Limited to twenty-five students. Second semester. Professors Aitken and Halsted.

36. Ancient and Modern Literature. The readings are chosen to illustrate some of the resources of the literary imagination and something of the variety of human concerns which writers have entrusted to books.

The class will meet with both instructors for discussion once a week for two hours. Perhaps once a month, and at the beginning of the course more frequently, a student will be expected to submit a journal or commonplace book in which he has recorded a critical appraisal of his reading together with other observations.

Limited to fifteen students. Elective for Juniors with the consent of the instructors. Second semester. Omitted 1972–73. Professor Epstein.

48. Colloquium in South Asian Literature. A survey of South Asian literary traditions from the period of the classical Sanskrit drama to the present. Included will be readings in the medieval tales, literature in the Bhakti and Sufi traditions, modern literature in English, and in translation from the modern vernaculars. One two-hour seminar per week.

Requisite: Anthropology 21 or its equivalent. Elective for Juniors with the consent of the instructors. Limited to fifteen students. Second semester. Omitted 1972–73. Professors Babb and Peppard.

The Kenan Colloquium

The Kenan Colloquium is an interdisciplinary project, the equivalent of two courses in each semester, under the auspices of the William R. Kenan, Jr. Professor, involving students and faculty from the departments of anthropology and sociology, biology, English, physics, and political science. The aim of the colloquium is to explore the interaction between the natural and human environments, with a primary emphasis on American materials. All students in the colloquium will take both English 67 and 68, a selective survey of American thought and expression, with special emphasis upon imaginative literature (see below), and one of three seminar sequences (Kenan Seminars 1–2, 3–4, 5–6, also described below). Each seminar will meet independently, but there also will be occasional meetings of the entire colloquium to discuss common problems, to consult visiting scholars, and to evaluate research projects. In each seminar sequence, one or more research projects (involving field work where appropriate) will be undertaken. The projects will be designed to test specific ideas about the relationship

between environment, society, and culture in the region. These projects may be individual or collective, and where collective they may involve collaboration among members of different seminar sequences.

Limited to fifty students. Elective for Sophomores. Priority for admission will be given to students enrolling in the entire colloquium. Application for admission may be obtained from any of the participating faculty: Professors Marx, Peterson, Pitkin, Romer, Taubman, Tinker, Townsend, and Yost.

English 67. American Writers and Their Environments. A study of major American writers with an emphasis on changing conceptions of the relations between environment, society, and consciousness. Three models of interaction will be examined: the Puritan, the Enlightenment, and the Transcendental. Among the writers to be considered are Edward Taylor, Jonathan Edwards, Franklin, Jefferson, Crèvecoeur, Emerson, Thoreau, Hawthorne, Poe, and Melville. Three hours of classroom work per week.

Requisite: Enrollment in the Kenan Colloquium. Elective for Sophomores. Limited to fifty students. First semester. Professor Marx.

English 68. American Writers and Their Environments. A continuation of English 67, with special emphasis on the emergence of pastoralism, an ethos of disengagement, as a response to accelerating technological development. Among the writers to be considered are Whitman, Henry Adams, Mark Twain, Frost, Faulkner, Hemingway, Stevens, Williams, West, Bellow, Mailer, and Snyder. Three hours of classroom work per week.

Requisite: English 67 and enrollment in the Kenan Colloquium. Elective for Sophomores. Limited to fifty students. Second semester. Professor Marx.

Kenan Seminar 1. *THE WORLD WE HAVE.* A study of the limitations placed upon man's activity by natural laws and the finite resources of the earth. The seminar will begin with a brief introduction to some of the principles of ecology and then proceed to a consideration of various problems that arise out of industrialization and urbanization, such as noise, air pollution, waste disposal, high-yield argriculture, and population growth. Individual and/or group projects related to these and other areas of common concern will be initiated in this semester and pursued more extensively in the second semester. Two one-and-one-half-hour seminar meetings per week.

Priority will be given to those students enrolled in the Kenan Colloquium. Elective for Sophomores. Limited to fifteen students. First semester. Professor Romer.

Kenan Seminar 2. *THE WORLD WE OUGHT TO HAVE.* A continuation of Kenan Seminar 1. The work of the semester will be largely devoted to the completion of research projects. Seminar

meetings will place special emphasis upon possible solutions (technological or other) to some of the problems raised during the first semester, including an evaluation of utopian schemes from the point of view of the natural scientist. One two-hour seminar per week.

Requisite: Satisfactory completion of Kenan Seminar 1. Elective for Sophomores. Second semester. Professor Yost.

Kenan Seminar 3. *POLITICS IN AN AGE OF SCIENCE AND TECHNOLOGY.* A study of science and technology and their impact on contemporary American politics and society. Topic areas: the nature of science and technology; the interplay of politics and technology; theories of the evolution of technological societies; alternative public policies dealing with technology. Such concepts as "alienation," "erosion of intermediate institutions," "end of ideology," and "the emergence of post-industrial society" will be examined in the writings of such authors as Marx, J. S. Mill, Tocqueville, Weber, Marcuse, and Bell. The interaction of science and politics will be examined in case studies concerning the military-industrial complex, and education and technology. An aim of the seminar will be to provide a larger context for the study of community, and to suggest some propositions which may be investigated in the second semester.

Priority will be given to students enrolled in the Kenan Colloquium. Elective for Sophomores. Limited to fifteen students. First semester. Professors Taubman and Tinker.

Kenan Seminar 4. *COMMUNITY IN AN AGE OF SCIENCE AND TECHNOLOGY.* A continuation of Kenan Seminar 3. Ideas developed in that course and in such works as Blythe, *Akenfield;* the Lynds, *Middletown;* Riesman, *The Lonely Crowd;* Vidich and Bensman, *Small Town in Mass Society;* and Weil, *The Need for Roots* will be tested in field work in Amherst and in the surrounding region. In asking what forms communities take in a technological age students will define and work on particular problems and constituencies of interest to them, e.g., the role of conservationists, town planners or developers in the area; life on a commune in Leyden, in the black community of Amherst or the farm community of Hadley, or among the aged, the businessmen or the clergy of Amherst.

Requisite: Satisfactory completion of Kenan Seminar 3. Limited to fifteen students. Second semester. Professor Townsend.

Kenan Seminar 5. *THE QUEST FOR ORGANIC COMMUNITY.* A critical examination of selected literary, philosophical, and psy-

chological texts that reveal a persistent European vision of restored contact with a primitive and/or "organic" life-style. The course will begin with accounts of some ancient myths concerning lost paradises (the Golden Age, Atlantis) and with some modern attempts, by Freud, Jung, and Mircea Eliade, to account for the recurrence of "regressive" utopian notions. The primary emphasis of the semester inquiry will be on comparing and contrasting versions of the "natural life" as envisaged since the eighteenth century, especially in French and Russian "primitivist" thought. The seminar will conclude with some discussion of contemporary versions of a "communal" or "retribalized" culture. Independent research or field study projects will be formulated during the semester.

Priority will be given to students enrolled in the Kenan Colloquium. Elective for Sophomores. Limited to fifteen students. First semester. Professor Peterson.

Kenan Seminar 6. *SOCIAL ORDER: THE QUEST FOR AN IDEOLOGY.* A continuation of Kenan Seminar 5, with special emphasis on the role that pastoralism has played in social science thought and in popular culture. Research projects begun in Kenan Seminar 5 will be continued and in collaboration, where appropriate, with Kenan Seminars 2 and 4.

Requisite: Satisfactory completion of Kenan Seminar 5. Limited to fifteen students. Second semester. Professor Pitkin.

Inquiry Courses

21s. **Inquiry in the Humanities.** An investigation of questioning and thought which occur in the area of study known as the humanities. A series of works in a variety of forms will be considered—works of prose fiction, poetic drama, the song, the film, the philosophical essay—and appropriate modes of response to them will be developed. We shall raise the question whether these modes of response may themselves be regarded as a form of inquiry. We shall consider how works of art, in their oblique and enigmatic way, are explorations of general human experience and approaches to self-knowledge. We shall consider, too, if we can discover any unifying concern which underlies the various forms of creative expression which are grouped under the rubric of humanities. The works proposed for study in 1972–73 are *Fathers and Sons* by Turgenev, a group of songs chosen from the sixteenth to the twentieth centuries, *Twelfth Night* and perhaps a second play by Shakespeare, *Essays in Faith and Morals* by William James, *The Seventh Seal* by Ingmar Bergman, and *War and Peace* by Tolstoy. The list of works has been intentionally kept brief in order to allow time to reflect on how each

of the works in question is exemplary of the kind of intellectual and imaginative enterprise that is characteristic of the humanities. Approximately three hours of classroom work per week.

Elective for Freshmen and Sophomores. Second semester. Omitted 1972–73. Professors Epstein, Lebeck, and Pritchard.

22f. An Inquiry into the Nature of Deviancy. Designed to illuminate our understanding of particular kinds of alleged deviant behavior, such as: criminality, homosexuality, and insanity in the light of social science theory.

Elective for Freshmen. First semester. Professors Buff, Coplin, Pitkin, and Mr. Schloming.

23s. Inquiry in the Natural Sciences: The Nature of Light, Vision and Visual Perception. The progression of topics throughout the semester will follow the chain of events starting with light as a physical phenomenon and ending with the processes in the brain which result in perception. The emphasis will be not so much on accumulating factual information as on the process of discovering and verifying models and hypotheses used to explain the facts which are known from observation. Philosophical implications and the social consequences of scientific research will be discussed. Newton's theory of light and color; Goethe's opposing view; applications of physical theories of color to the art of painting; quantum effects and chemical reactions in the retina; the evidence for the existence of three types of color-receptor; Land's two-color projections; signal transmission by nerves; information processing by neural networks; organization of the brain; the mind-brain problem; perceptual illusions. Several papers will be assigned. Three class hours per week and occasional use of the laboratory.

Elective for Freshmen. Second semester. Professors Kropf and Towne.

COMMON STUDIES

In April, 1970, the Faculty voted to establish a two-year program of common studies designed to: (1) provide students with a broad base in diverse branches of modern liberal learning; (2) encourage students to discover, in a context richer than that usually available to them in secondary school, intellectual interests that may be of importance to them besides those already formed; and (3) offer students a common educational experience, one that will tend to promote the kind of conversation and joint intellectual exploration that a shared realm of discourse makes possible.

The Common Studies Program will be limited to thirty students from each freshman class. Should more than thirty freshmen apply for admission to the program, the staff, which is drawn from the departments represented in the program and which serves as academic advisers to students enrolled, will select thirty from among those applicants.

AMHERST COLLEGE

The requirements for the Common Studies Program are as follows:

1. All students in the Program must take the following courses in the semesters indicated:

FRESHMAN YEAR

First Semester: English 11, Political Science 11, and a Freshman seminar.
Second Semester: Economics 11s, Philosophy 11s, and Inquiry 23s.

SOPHOMORE YEAR

First Semester: Psychology 11 and Sociology 11.
Second Semester: History 11s, and Fine Arts 11s or Music 11s.
The staff of the Program may, for a given year, substitute for, or offer as an alternative to, Philosophy 11, Religion 11; for History 11s, American Studies 12; for Sociology 11, Anthropology 11; for Fine Arts 11s, Music 11s or Dramatic Arts 11s.

2. In addition to the regular Degree Requirements, students in the Common Studies Program must satisfy, by the beginning of the junior year, the following requirements in foreign languages and mathematics:

Foreign Languages: The student must demonstrate his ability to use a foreign language (one other than his native language) in an intellectually substantive way. This requirement may be satisfied by: (1) satisfactorily completing a course in foreign literature, excluding those taught from translations; (2) certification by a member of the Faculty that the student has read, in connection with a course other than a foreign literature course, a significant amount of material in a foreign language; or (3) demonstrating to a member of the Faculty, chosen by the director of the Program, that he has read or written intellectually substantive material in a foreign language.

Mathematics: The student must demonstrate that he possesses at least an elementary knowledge of college-level mathematics. This requirement may be satisfied by: (1) successfully completing any course offered by the Department of Mathematics; or (2) by demonstrating to a member of the Department of Mathematics, chosen by the director of the Program, that he possesses at least an elementary knowledge of the calculus.

3. During the freshman and sophomore years, students in the Common Studies Program will participate in a non-credit Colloquium with those members of the Faculty who constitute the staff of the Program. The Colloquium will meet three or four times a semester to discuss topics and

problems of interest to participants. Students enrolled in the Program will have a voice in defining these topics and problems.

No student who elects and is accepted into the Common Studies Program is required to remain in it for the full two years, or even one year. He may withdraw without penalty at any time. It is an elective but prescribed program of studies open to those who may find in its structured format an attractive and challenging way—obviously just one among many possible ways—to further their educational aims.

EDUCATION

Professors Hawkins and Heath; Associate Professors Grose and Olver†.

The following courses offered by the several departments are listed for the convenience of students who are interested in education and teaching. Students seeking to be certified for public school teaching positions should consult the separate materials in the Registrar's Office concerning courses available at the Five Colleges and State certification requirements.

Developmental Psychology. See Psychology 27.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Irons.

Educational Psychology. See Psychology 34.

Requisite: Psychology 11. Elective for Sophomores. Seminar course limited to fifteen students with the consent of the instructor. Second semester. Professor Grose.

Seminar in American Educational History. See History 66.

Limited to fifteen students. Second semester. Omitted 1972–73. Professor Hawkins.

English and Education. See English 75.

Limited to fifteen Amherst College students. Up to seven students from other colleges may also be admitted. First semester. Omitted 1972–73. Professor Heath.

European Studies. See page 114.

†On leave first semester 1972–73.

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FRESHMAN SEMINARS

Designed especially for first-semester freshmen, these courses share a common purpose and a common style. An upperclassman, usually a senior, will normally participate with the instructor in the planning and teaching of each seminar. The subject matter of each seminar as described below serves as an initial starting point, as a focus of interest. Thereafter, the direction taken by each seminar will depend to an unusual degree upon all the participants. Emphasis will fall as much upon questions concerning the value and responsibility of knowing as upon a specific subject or discipline. What matters is the quality of talk, sustained by qualities of mind.

First semester. Two seminar meetings per week.

1. Alienation and Commitment. With Kenneth Kenniston's *The Uncommitted* as its point of departure, this seminar will focus on the experiences of alienation and commitment and will have as its central theme the interaction between the life of an individual and the history of his society. Questions for consideration will include the condition of adolescence, the purpose of education, and such basic relationships as those between psychology and history, the private and public life of an individual, the sentient and the rational as ways of knowing, the need for individual self-fulfillment and the demands made by society.

Professor Petropulos and Bruce A. Harris '73.

2. "A Majority of One." The text with which the seminar will begin is Henry David Thoreau, *Walden*. The questions which will engage the seminar are: 1) *Walden* as a literary experience; that is, Thoreau's craft and the design of the book; 2) *Walden* as an American book; that is, the book in relation to its moment in time and the questions it raises about the relation of literature to history; 3) *Walden* as a universal book; that is, the book in relation to other cultures and to the generic human condition; and 4) *Walden* in relation to our time, the present moment in American history. Within each of those four broad questions, the student will bring to bear his own personal and intellectual experience in the design of the work of the seminar.

Professor Ward and Gary J. Kornblith '73.

3. Autobiography and the Sense of Time. The seminar begins with the question: how do individuals recognize themselves (or create themselves) as members of a particular culture at a particular moment in history? Autobiographical writing by members of the seminar and by others (St. Augustine, Jean-Jacques Rousseau, Henry Adams, Simone de Beauvoir, Gandhi, Claude Lévi-Strauss, Jean-Paul Sartre, Malcolm X are possibilities) will be read and discussed.

Professor Ratté and Edward B. Tasch '73.

4. The Bill of Rights. An exploration of the historical and philosophical origins of the American Bill of Rights, of current interpretations of and controversies over the federal Bill of Rights by courts and by the Executive Department, and of the larger issues of public policy and morality which these controversies and interpretations raise.

Professor Commager and William H. Woolverton, III '73.

5. The Black Writer. Among the questions raised in this seminar may be: to what extent does the black writer consider himself a black writer rather than a writer? What is the relation between his writing and his political commitments? What media have served him best? What regional differences are evident among black writers? What has he learned, or what has he to learn from the African, the American, or the European past? Such questions may be asked of representative black writings, or, where relevant, of the writings of the students in the seminar.

Professor Townsend and Stephen N. Keith '73.

7. Consequences of Scientific Discovery. The starting point will be *The Copernican Revolution: Planetary Astronomy in the Development of Western Thought* by Thomas S. Kuhn. The simple observational facts which played a role in the transition from a geocentric to a heliocentric model of the universe will first be studied with the aid of a Planetarium and naked eye observation of the heavens. Discussion will then focus on the interplay between purely scientific considerations and religious, philosophical, and social concepts. The suggested theme for continuation of the seminar is a critique of the role of science in shaping modern society. Matters of social and ethical concern will be of primary interest.

The material on the Copernican Revolution is not of such a technical nature that it requires a mathematical background. A balanced mixture of science and non-science students would be the most desirable composition of the group.

Professor Towne and Steven Shak '73.

8. Cybernetics and Reality. Cybernetics, the study of complex systems, is a relatively new mathematical science having origins and applications throughout a wide spectrum of fields, among them: biology (e.g., how brains work), engineering (e.g., communications networks), philosophy (e.g., man-machine controversy), and political science (modeling of political systems). The seminar will begin with introductory reading and discussion on the mathematical language and methodology of the subject, involving certain topics from probability theory, automata theory, and information theory, but requiring no unusual prior background or ability. From this common basis students may then follow their own interests in investigating the validity and success of applications of this science to other fields. Students may also wish to investigate, possibly with the use of the computer, the

behavior of cybernetic models of their own design. These investigations will be reported and discussed at the seminar meetings. Emphasis will be on critical thinking in the posing of problems and in the evaluation of the contribution of cybernetics to their solution. Considerable attention will also be focused on the deeper question of the significance of the problems themselves.

Professor Hadlock.

9. The Higher Learning in America. The seminar begins by comparing criticisms of organized higher education by Thorstein Veblen and Irving Babbitt, two very different thinkers of the early twentieth century. It then turns to the social and institutional setting in which Veblen and Babbitt worked and to other aspects of their thought, with special investigations according to students' individual interests. An effort will be made to compare the thought of the two men with more recent criticisms of American higher education.

Professor Hawkins and John D. Shuck '73.

10. The Inner Life. What are the uses of imagination? What are its responsibilities? Are its ends and satisfactions mainly private and personal? What does it owe to the myths of culture? Such questions as these will provide a starting point for discussions which may reach into the student's own experience and the world at large for materials, as well as into literature and the arts, philosophy, psychology, anthropology, politics. The continuing theme will be the interaction of education and the student's inner life.

Professor Cameron and Jay W. Swanson '73.

11. Knowing and Doing. We will explore such questions as: Are there dangerous truths? When is a thinker obliged to act as a citizen? How much experience is good for a thinker's thought?

Professor Kateb and Peter E. Scheer '73.

12. Life's Turning Points. The point of departure will be Erik Erikson's book, *Gandhi's Truth*. Questions addressed will include the relationship between psychology and history, the consonance of rational and emotional truth, the conflict between law and morality, the contradiction between western and eastern values. The central theme of the seminar will be the intersection of an individual's life with the history of his or her society: can one sense the truth in the moment of experience or perceive it only in retrospect?

Professor Gifford and Charles Trueheart '73.

13. Natural Processes in the Creation and Maintenance of Our Environment. This seminar will investigate the sources of energy in the earth and their relationship to the natural physical and chemical processes which originally shaped and now maintain our environment. The stability and instability of the Earth's oceanic, atmospheric, and continental environments will be dis-

cussed in light of man's ability to alter them. Loveson's *A Sense of the Earth,* Marx's *The Frail Ocean,* and other similar works will both focus and extend discussions of how man relates to and lives with his environment. Other topics and approaches will be guided by the interests of the participants.

Professor Kuntz and James O'Brient '73.

14. Reading, Experiencing, Knowing. A consideration of how, in life and in stories, a person comes to know and to know about such matters as emotion and its excesses, pain and death, courage and honor, status and the nature of community. The dialogue will proceed from two points: 1) each class member's self-inquiry, and 2) a reading of two extended narratives: *The Iliad* and a recent American novel.

Professor Sofield and William S. Waddell, Jr. '74.

15. Religious Interpretations of Experience. The starting point will be a work such as the *Confessions* of St. Augustine, or a modern book such as Elie Wiesel's *Souls on Fire.* Discussion will focus on what is involved in the interpretation of man's experience in terms of religious symbols. Attention will be given to the relation between private and public or institutional expressions of faith, to the ethical and political consequences of religious symbolizations, and to the question whether there are experiences which are intrinsically religious.

Professor Mudge and Ralph J. Benko '74.

16. The Scientist: A Personal and Social View. The seminar will begin with two works, by Newton and Mendel, which although of major importance are readily accessible to students with no prior training in science. These papers should permit us to define what a scientist is by focusing on what he does at his best. From this point, the seminar will examine the tension between the view a scientist has of himself and of his role in society and the view society has of him and that role. A comparison of literary accounts, such as Brecht's play *Galileo* with biographical accounts, such as Watson's *The Double Helix,* should provide material for discussion of such important questions as the social responsibility of scientists, the uses and limitations of free inquiry, and the contradictions that arise in the life of a scientist attempting to reconcile his personal beliefs with the requirements of his intellectual activity.

Professor Yost and Richard P. Tonino '73.

17. Stories and Storytellers. The question, "Why do men tell stories, and why do others listen?" set against a background of readings from modern and ancient literature: Homer, Herodotus, Shakespeare, Tolstoy, Gogol, Borges, and others, including particularly "naive" literature, folktales and children's stories. Additional readings from Freud, Jung, Laing, Lévi-Strauss. This is not to be a survey of great books nor a catalogue of the current

received wisdom on folklore and mythology, but an introduction to the life of the mind in books.

Professor Flory and Kenneth J. Burchfiel '73.

HISTORY OF SCIENCE

History of Science is offered at Mount Holyoke College, Smith College and the University of Massachusetts. A list of specific courses will be found at the Office of the Registrar.

LATIN AMERICAN STUDIES

A list of courses has been compiled as an aid to students in the Five-College area seeking programs on Latin America or with Latin American content, containing both general courses which embody topics dealing with Latin America as well as courses devoted substantially or exclusively to the area. The Spanish language is taught at Amherst and Mount Holyoke Colleges, and both Spanish and Portuguese are taught at Smith College and the University of Massachusetts. Mount Holyoke offers an interdepartmental major in Latin American Studies, while Smith offers two programs in Hispanic-American Studies, one in literature and the second in fields other than literature. A Certificate Program in Latin American Studies will be available, subject to approval, at the University of Massachusetts.

The list of courses in Latin American Studies, complete descriptions of individual courses, and enrollment information may be obtained from the Registrar.

LEGAL STUDIES

Professors Kearns, Latham and Ziegler.

American Constitutional Development. See Political Science 41.
First semester. Professor Latham.

Administrative Law. See Political Science 42f.
Limited to twenty-five students. First semester. Omitted 1972–73. Professor Ziegler.

International Law. See Political Science 46.
Second semester. Professor Ziegler.

Philosophy of Law. See Philosophy 21s.
Second semester. Professor Kearns.

SLAVIC STUDIES

A student at Amherst College may develop a program in Slavic Studies from courses offered here and at Mount Holyoke and Smith Colleges and the University of Massachusetts. Courses in the fields of anthropology, economics, government and political science, history, Polish, Russian, and sociology which may be included in a Slavic Studies program are listed in a booklet, published by the Office of the Five College Coordinator, which is available from the Registrar.

IV

LECTURESHIPS

HONORS

FELLOWSHIPS

PRIZES AND AWARDS

DEGREES CONFERRED

The Merrill Center

Lectureships

The Henry Ward Beecher Lectureship. This lectureship fund of $10,000 was founded by the late Frank L. Babbott, LL.D., of the Class of 1878, in honor of Henry Ward Beecher, of the Class of 1834. The incumbent is appointed biennially by the Faculty for supplementary lectures in the departments of history and the political, social, and economic sciences.

The Clyde Fitch Fund. A fund of $20,000 was established by Captain and Mrs. W. G. Fitch of New York in memory of their son, Clyde Fitch, of the Class of 1886. The income of this fund is to be used for the furtherance of the study of English literature and dramatic art and literature. The whole or part of this income is usually devoted to the remuneration of an eminent lecturer, who may also take a part in the regular instruction of the College.

The Victor S. Johnson Lectureship Fund. This fund, amounting to $35,569, was established in memory of Victor S. Johnson by his sons for the purpose of "bringing to the campus each year a stimulating individual worthy of the lecturer's purpose of serving the best tradition of the liberal arts and individual freedom."

The John Woodruff Simpson Lectureship. A fund now amounting to $215,500 was established in memory of John Woodruff Simpson, of the Class of 1871, by his wife and daughter. The income is to be used for fellowships and "to secure from time to time, from England, France or elsewhere, scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

The George William and Kate Ellis Reynolds Lectureships. A fund of $150,000 established by the late George W. Reynolds of the Class of 1877 provides an annual income of approximately $14,500 which is divided into three equal parts to provide lectureships on Christ and Christianity, Science, and American Democracy.

The Willis D. Wood Fund. The income from this fund, established in memory of Willis D. Wood '94, and now amounting to $109,145, is used for the purpose of "bringing to the campus, for varying lengths of stay, persons in the field of religion to meet and talk with students and faculty about different aspects of the spiritual life."

Honors

THE PHI BETA KAPPA SOCIETY

Massachusetts Beta Chapter. The students elected to membership in this honor society are those of highest standing and are normally candidates for the degree with honors. A preliminary election of outstanding students occurs at the end of the first semester of Junior year; and further elections occur at the end of the first semester and at commencement time of Senior year. Membership is extended to about a tenth of the students in each class.

OFFICERS

President: Professor William Elmer Kennick
Vice President: Professor Dudley Herbert Towne
Secretary-Treasurer: Professor G(eorge) Dann Sargent
Undergraduate President: Paul Gordon Yock '73
Undergraduate Vice-President: Gary John Kornblith '73
Undergraduate Secretary-Treasurer: Stephen Payne Goff '73

INITIATES

Class of 1973

Stephen Payne Goff
Gary John Kornblith
Paul Gordon Yock

Class of 1972

Bruce Gardiner Aitken
Louis Benson Bernstein
Mitchell Warren Blair
David Gregory Brailow
Martin Alan Brody
James Lawrence Butrica
Edward Beecher Claflin
Stephen Ralph Gang
Clayton Porter Gillette
Bradford Hoadley Hager
Charles Scott Hammen
Joe Phil Hammond
William Doit Hauger
Stephen Mark Heim
Eric Putnam Henry
Thomas Ludwig Holzman
Steven Eliot Horn
Kenneth Allen Hoxie
Douglas Clark Johnson
John Paul Jones
Stephen Robert Kessell
Mark Jeffrey Kuperberg
Edwin Charles Laurenson
Brian Ephraim Lebowitz*
David Jeffrey Levenson*
Craig Selden McNeer
Robert James Ogilvie
Malcolm Charles Phillips
Lee Sumner Richards III
Robert Joseph Rosepink
Wayne Mitchell Rubin
Joseph Frederick Sachs
Jerry Karl Scheinfeldt
Brian Hartwell Spear

* These students elected in their junior year

David Samuel Turesky*
Edward James Vairo
Gil Ramón Valenzuela
James David Wicklatz

THE SOCIETY OF THE SIGMA XI

Sigma Xi, the National Honorary Scientific Research Society, was founded in 1886; the Amherst Chapter was installed March 23, 1950. As one of its purposes the Society gives recognition to those students, members of the faculty, research associates, and alumni who have demonstrated ability to carry on constructive scientific research or who show definite promise of research ability. Other functions are the maintenance of companionship among investigators in the various fields of science, the holding of meetings for the discussion of scientific subjects, and the fostering of an interest in scientific research in the College.

Undergraduates, masters candidates, and others who show definite promise of research ability are typically recommended to associate membership by the departments concerned. In the case of undergraduates, nomination is usually given only to those students whose promise of research ability would warrant recommendation for at least a degree *magna cum laude* (entirely aside from the question of grades).† At present the chapter has a total membership of some 100 faculty and students.

OFFICERS

President: Robert Horton Romer
Vice-President: Professor Henry Thomas Yost Jr.
Secretary-Treasurer: Professor David Lee Armacost

INITIATES 1972

Full Membership

Stephen Robert Kessell
Robert Thomas Sauer

Associate Membership

Bruce Gardiner Aitken
Mark Filbert Bevan
Jeffrey Alan Craven
Harold Damery Gordon
Bradford Hoadley Hager
William Doit Hauger
Mark Alan Hoffman
Douglas Clark Johnson
Stuart George Katz
Michael Harry Kelleher
John Howard Kramer
Frank James Kroboth, III
David Jeffrey Levenson
Thomas Roger Lipscomb
Carl Howard Manstein
John Richard Perry
Malcolm Charles Phillips
Bradley Albert Stirn
Neil Hedner Suneson
Bruce Pollock Thompson
James Bradford Ward

† Full membership is reserved for individuals who have already published at least one scholarly paper.

AMHERST COLLEGE

THE BOND FIFTEEN

The Bond Fifteen is an honorary designation for the fifteen seniors who have attained the highest general standing in their class at the end of the first semester of the senior year. The title is derived from a prize, given by Ephriam W. Bond of the Class of 1841, which was formerly awarded to a speaker, chosen from this group on the basis of literary and oratorical merit, to deliver an oration during Commencement Weekend.

THE BOND FIFTEEN 1972

Bruce Gardiner Aitken
Bradford Hoadley Hager
William Doit Hauger
Stephen Mark Heim
Eric Putnam Henry
Kenneth Allen Hoxsie
Stephen Robert Kessell
Mark Jeffrey Kuperberg
Brian Ephraim Lebowitz
David Jeffrey Levenson
Robert James Ogilvie
Lee Sumner Richards, III
Joseph Frederick Sachs
Jerry Karl Scheinfeldt
David Samuel Turesky

Fellowships

THE College's funds for fellowships aggregate $875,000. From the income of these funds fellowships are awarded annually to graduates of Amherst College for study in graduate or professional schools. Applications should be made before February 15 on forms available from the Dean of the Faculty.

The names of those to whom fellowships have been awarded for the current year will be found on pages 24–27.

The Amherst-Doshisha Fellowship. Amherst-Doshisha Fellowship at Amherst House, Doshisha University, Kyoto, Japan. An opportunity to work in a bi-cultural setting with Professor Otis Cary, Director of Amherst House, is open to young alumni of the College for a term of one, or in some cases, two years. Travel expenses and a modest stipend are paid by the College. The recipient will be given the opportunity of assisting Otis Cary in the activities of Amherst House and also in teaching English to Japanese students. No knowledge of Japanese is required.

The fellowship offers a stipend of $1,800, a travel allowance of $1,400, and incidental expenses of $250. Preferably the fellowship year would be from September of one year to the following August. It carries with it formal teaching responsibilities in the English language at Doshisha University, at the freshman and sophomore level. The academic year at Doshisha has allowed all fellows to make an extended trip through South East Asia during February and March.

Applicants should apply to the President of the College, with a view to having a decision in mid-February.

The Amherst Memorial Fellowships for the Study of Social, Economic, and Political Institutions, and for Preparation for Teaching and the Ministry. A fund of $138,300 provides fellowships to perpetuate the memory of those Amherst men who gave their lives for an ideal. The following statement expresses the purposes of the donor of these fellowships: "Realizing the need for better understanding and more complete adjustment between men and existing social, economic, and political institutions, it is my desire to establish a fellowship for the study of the principles underlying these human relationships."

Appointments to these fellowships may be made from the graduating class or the alumni of Amherst College or of other colleges, the object being to permit men of character, scholarly promise, and intellectual curiosity to investigate some problem in the humanistic sciences. Candidates should be men of sound health. During previous training they should have

given evidence of marked mental ability in some branch of the social sciences—history, economics, political science—and have given promise of original contribution to a particular field of study. It is desirable that they possess qualities of leadership, a spirit of service, and an intention to devote their efforts to the betterment of social conditions through teaching in its broad sense, journalism, politics, or field work.

While preference is given to candidates planning to do advanced work in the field of the social sciences, applications will be accepted and awards made to candidates who are planning to go to theological school as a preparation for a career in the ministry and to those from other fields than the social sciences who are preparing for a career in teaching in secondary schools or colleges.

Appointments may be made for terms of two years. Tenure may, however, be shorter or longer, depending upon the nature of the subjects investigated or upon other circumstances which, in the judgment of the committee, warrant a variation in the length of tenure.

The stipend will vary according to the circumstances of the appointment. Awards will depend upon those aspects of individual cases which, in the judgment of the committee, most suitably fulfill the purpose of the foundation.

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

The Evan Carroll Commager Fellowship. A gift of $22,350 from Professor Henry Steele Commager, in memory of his late wife and "as a testimony to her affection for this College," was made to enable an Amherst student to study at Cambridge University, England. The Fellowship carries a stipend of $1,000 for one year but may be renewable for a second year. The award is open to any student, but a senior will be favored and preference will be given to students applying to Peterhouse, St. John's College, Trinity College, and Downing College.

The Henry P. Field Fellowships. Two fellowships of $500 each are available from the income of the bequest of the late Henry P. Field of the Class of 1880, to promote graduate study in the fields of English and History. Appointments are made annually by the College on the recommendation of the departments of English and History.

The Warner Gardner Fletcher Fellowship—The income from a gift of $5,000 from the late Warner Gardner Fletcher of the Class of 1941 is awarded to an Amherst graduate who intends to "pursue work for the improvement of education." The award is made by the Fellowship Committee and preference is given to candidates who are engaged in the study of education and then to candidates for the Master of Arts in Teaching.

The Edward Hitchcock Fellowship. The income from a fund of $20,000 founded by the late Mrs. Frank L. Babbott of Brooklyn, N.Y., is available for the promotion of graduate study in the department of physical education. Its object is to make the student familiar with the best methods of physical training, both in the gymnasium and on the field. The appointment is made by the Faculty.

The Roswell Dwight Hitchcock Memorial Fellowship. A fund of $9,200, established through the agency of the Alpha Delta Phi Fraternity, provides an annual award under conditions determined by the Faculty, to a member of the senior class for excellence in history and the social and economic sciences. The holder of the Fellowship pursues for one year, at an institution approved by the Faculty, a course of study in history or economics, to be completed within the period of two years next following graduation. The amount of the Fellowship is paid in two installments, one on completion of one-half the year's work, the other at the end of the year.

The Rufus B. Kellogg University Fellowship. The income from a fund of $74,700 established by the late Rufus B. Kellogg of the Class of 1858 provides certain prizes, and a fellowship award for three years to an alumnus of Amherst College, who shall be appointed upon the following conditions:

1. He shall be elected by the Faculty from the members of the class graduated at the close of the academic year in which this election shall be made, or from the members of the classes graduated in the six years immediately preceding the academic year in which this election shall be made.

2. The Faculty shall select as the incumbent of the said Fellowship the man who, in their judgment, is best equipped for study and research, without regard to any other considerations whatsoever, except that he should have an especially good knowledge of at least one modern foreign language and should have had at least one year of Latin in preparatory school or college.

3. The three years shall be spent by the incumbent at a German University, or with the approval of the said Faculty at any other place or places, in the study of philosophy, philology, literature, history, political science, political economy, mathematics or natural science. At least one college term of the final year shall be spent by the incumbent at Amherst College, where he shall give a series of not more than thirty lectures on a subject selected by himself and approved by the Trustees. The lectures shall be given to the Senior class, but the members of all other classes shall have the privilege of attending. The incumbent shall have his lectures published, at the end of his official term, in good book form, or in a learned journal.

The Sterling P. Lamprecht Fellowship. From the income of $32,900 a fellowship is awarded to a recent graduate of Amherst College for assistance in the pursuit of philosophy. This fellowship may be awarded to the same man for a maximum of three years. It need not be awarded at all in one particular year, and it might be, if there were no suitable graduate, awarded to an undergraduate in which case it would be known as the Sterling P. Lamprecht Scholarship. Preference, however, would be given for graduate study.

The Edward Poole Lay Fellowship. The income from a fund of $49,500, established by Frank M. Lay, of the Class of 1893, and Mrs. Lay, in memory of their son Edward Poole Lay, of the Class of 1922, provides for a fellowship to be awarded to a graduate of Amherst College who has shown unusual proficiency and talent in music, and who desires to continue his studies in this field. Preference is to be given to a candidate who is proficient in voice. In the event that there is no qualified candidate for the award in any one year in the musical arts (especially voice and instrumental music), then it may be awarded under the same conditions to a qualified candidate in the field of the dramatic arts.

This fellowship will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

The Mayo-Smith Teaching Fellowship. This fellowship provides that a member of the graduating class interested in a career in education be named "Assistant to the Director of Admissions."

The Forris Jewett Moore Fellowships. These fellowships, three in number, were established in memory of Forris Jewett Moore of the Class of 1889 by his widow, Emma B. Moore. In each case, the beneficiary is to be a member of the graduating class of the year preceding that in which he holds the Fellowship.

1. A fund of $35,200, the income of which is to be used to assist some graduate of Amherst College who has distinguished himself in the study of chemistry while an undergraduate, and who desires to engage in further study of that subject. Preference is to be given to eligible candidates whose plans lie in the field of organic chemistry.
2. A fund of $24,700, the income of which is to be awarded to a graduate of Amherst College who has distinguished himself in the study of history while an undergraduate, and who desires to engage in further study of that subject.
3. A fund of $28,400, the income of which is to be awarded to a graduate of Amherst who has distinguished himself in the study of philosophy while an undergraduate and who desires to engage in further study of that subject.

The George Stebbins Moses Memorial Fellowship. The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader and a lover of ordinary people, and who is qualified scholastically to meet the calling of a theological career creditably. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The recipient will be selected by the Fellowship Committee acting with the Minister to the College and, ordinarily, will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

The George A. Plimpton Fellowships. These fellowships, established by the Board of Trustees of Amherst College in memory of George A. Plimpton of the Class of 1876, a member of the Board from 1890 to 1895 and from 1900 to 1936, and President of the Board from 1907 to 1936, are to be awarded without stipend to members of the senior class who are of outstanding scholastic ability and promise, who plan to continue their studies in graduate school, and who are not in need of financial assistance.

These fellowships will be awarded by the Board of Trustees upon recommendation of the Faculty Fellowship Committee.

The Charles B. Rugg Fellowship. The income from a fund of $26,600 established in memory of Charles Belcher Rugg, of the Class of 1911, provides a fellowship to be awarded to an Amherst graduate who shows promise for the study of law. The award is made annually to aid a young man beginning a legal career, but it may be renewed for a second or third year upon recommendation of the Fellowship Committee.

The John Woodruff Simpson Fellowships and Lectureships. A fund now amounting to $215,500 was established in memory of John Woodruff Simpson of the Class of 1871, by his wife and daughter. The uses of the income as defined by the donors follow:

"1. To award to any graduate of Amherst College a fellowship for use in studying law at any school approved by the Board of Trustees of the College;

"2. To award to any graduate of Amherst College a fellowship for use in studying medicine at any school approved by the Board of Trustees of the College;

"3. To award to any graduate of Amherst College a fellowship for use in studying theology at any school approved by the Board of Trustees of

Amherst College, without regard to the particular creed or particular religious belief taught thereat;

"4. To award to any graduate of Amherst College a fellowship for use in studying at any school, college or university approved by the Board of Trustees of the College, in preparation for the teaching profession;

"5. To award to any graduate of Amherst College a fellowship for use in graduate study at the universities of Oxford or Cambridge in England;

"6. To award to any graduate of Amherst College a fellowship for use in graduate study at the Sorbonne in Paris;

"7. To secure from time to time from England, France or elsewhere, scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

The Benjamin Goodall Symon, Jr. Memorial Fellowship. The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader, and who is qualified scholastically to meet the calling of a theological career creditably, although he may plan to use the divinity school training for work in another field. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The fellowship will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

The Roland Wood Fellowship. Awarded annually upon the recommendation of the Department of Dramatic Arts as a fellowship to one or more promising and deserving graduates of Amherst College for continued study in or of the theater.

Fellowships Awarded by the American Schools of Classical Studies at Athens and Rome. The attention of graduate students interested in the Classics and in Archaeology and Ancient Art is called to the opportunities offered by the American Schools of Classical Studies at Athens and Rome. As the College contributes regularly to the support of these schools, any Amherst graduate may enjoy the privileges of study at either school without charge for tuition and may compete for the annual fellowships which they offer. Further information may be obtained from any teacher of Classics at the College.

Prizes and Awards

THE following prizes and awards are offered annually for proficiency in the work of the several departments of collegiate study and, in some specific awards, for other achievements and qualifications. The amount and the recipient of awards for the previous year are stated in each case.

ART

The Anna Baker Heap Prize. Established by Arnold N. Heap of the Class of 1873—To that senior who submits the best essay in the field of "Art." *$195 to Richard Ross Cloues '72.*

The Athanasios Demetrios Skouras Prize. Given by the Class of 1936 in memory of Athanasios Demetrios Skouras of the Class of 1936, who died in 1943 in Athens, Greece, as a result of Nazi reprisal killings—To a student who, in the opinion of the Fine Arts Department, has created an outstanding work of art or architecture; or to a student who, in the opinion of the Music Department, is pre-eminent in music composition or performance, *preference to be given in the fine arts. $50 to Patrick Michael Collins '73 and $50 to Bruce Arthur Ourieff '73.*

BIOLOGY AND GEOLOGY

The Harvey Blodgett Award. Established by Frederick H. Blodgett in memory of his grandfather, Harvey Blodgett of the Class of 1829—To aid student work in biology and geology in their educational phases as distinct from their more technical and scientific phases. (Combined with the Phi Delta Theta Award.) *$310 to David Aaron Kessler '73.*

The James R. Elster Award. Established by Dr. and Mrs. Samuel K. Elster in memory of their son, James R. Elster of the Class of 1971—To provide research support in the summer months to an undergraduate studying in the Department of Biology who is designated by the Chairman in consultation with Department members. *$250 to Gary Michael Horbar '73 and $250 to Peter Lewis Sosnow '73.*

The Phi Delta Theta (Sigma) Award. Established by Phi Delta Theta Fraternity—To a student of biology for summer work at the Woods Hole Marine Laboratory. (Combined with the Harvey Blodgett Award.) *$310 to David Aaron Kessler '73.*

AMHERST COLLEGE

The Oscar E. Schotté Prize—To that member of the graduating class who, in the opinion of the Department, has done the best independent work in biology. *$65 to Stephen Robert Kessell '72.*

The Oscar E. Schotté Summer Research Award—To a junior or senior majoring in science to enable him to complete a special project during the summer months. *$275 to James Thacher Brock '73.*

CHEMISTRY AND MEDICINE

The Howard Waters Doughty Prize. Established by an anonymous donor—To that member of the senior class who, in the opinion of the Department of Chemistry, has prepared the best honors thesis. *$60 to Jeffrey Alan Craven '72 and $60 to Michael Harry Kelleher '72.*

The Frank Fowler Dow Prizes. Established by Fayette B. Dow of the Class of 1904 in memory of his father—To that junior or senior preparing to enter medical school, whose undergraduate work indicates a career of usefulness and distinction in medicine. *$300 to David Jeffrey Levenson '72.*

DRAMATICS

The Raymond Keith Bryant Prize. Given by Robert E. and Ethel M. Bryant in memory of their son, Raymond Keith Bryant of the Class of 1936—To that undergraduate who, in the opinion of a board of judges, gives the best single performance of the year in a Masquers' play. *$45 to Geoffrey Lynn Keller '73 for his performance as Hickey in* The Iceman Cometh.

ECONOMICS

The W. T. Akers, Jr. Prize. Given by W. T. Akers, Jr. of the Class of 1927—To that undergraduate who, in the opinion of the Department of Economics, has submitted the best honors thesis in economics. *$50 to John Sumner Ingalls '72 and $50 to Brian Ephraim Lebowitz '72.*

The Hamilton Prize. Established by his former students in memory of Professor Walton Hale Hamilton (Amherst College 1915-1923)—To that student other than a senior who ranks highest in the introductory economics course. *$30 to Alexander Anastasios Notopoulos, Jr. '74.*

The Merrill Center Prize—To that senior who, in the opinion of the Department of Economics, has written an honors thesis of distinction upon a subject related to capital formation and economic growth. *$50 to Thomas Wrightington Blackwell '72 and $50 to Jay Robert Franke '72.*

The Sylvester Prize. Given by Albert L. Sylvester of the Class of 1924—To that junior majoring in economics, who has done outstanding work in that department while maintaining a worthy general average. If the recipient is already receiving financial aid, the award is $750. If not, the award to the student is $100 and the Robert Frost Library receives the remainder for the purchase of books in the field of economics. *$100 to Christopher Robin Hilbert '73.*

ENGLISH

The Academy of American Poets Prize. Given by Harry Woodbourne—To the undergraduate submitting the best poem or group of poems, preferably on nature. *$100 to Richard Bruce Cohen '73.*

The Armstrong Prize. Established in part by Collin Armstrong of the Class of 1877 in memory of his mother Miriam Collin Armstrong—To members of the freshman class who excel in composition. *$135 to James Kevin Stoller '75. Honorable Mention to Kemp Owyne Roelofs '75.*

The Collin Armstrong Poetry Prize. Established in part by Mrs. Elizabeth H. Armstrong—To the undergraduate submitting the best original poem or group of poems. *$135 to Frederick August Hemley '72.*

The Corbin Prize. Established by a bequest from the estate of William Lee Corbin of the Class of 1896—To a student submitting an outstanding original composition in the form of poetry or an informal essay. *$120 to Edward Beecher Claflin '72.*

The Harry Richmond Hunter, Jr. Prize. Established by H. R. Hunter and Emma Louise Hunter in memory of their son, Harry Richmond Hunter, Jr. of the Class of 1929—To that sophomore who presents the best essay on a topic approved by the Department of English. *$50 to Hardy Culver Wilcoxon '74. Honorable Mention to William Stewart Waddell '74.*

The Peter Burnett Howe Prize. Established by Robert B. Howe of the Class of 1930 in memory of his son, Peter Burnett Howe of the Class of 1960—To an undergraduate for excellence in prose fiction. *$160 to J. Willis Dorsey '74.*

The Ralph Waldo Rice Prize. Established by Mrs. Mary Rice Jenkins in memory of her brother, Ralph Waldo Rice of the Class of 1910—To the student submitting the best essay on "The Liberal College and Christian Citizenship" or any other subject named by the Faculty. *$185 to Eric Putnam Henry '72.*

AMHERST COLLEGE

FRENCH

The Frederick King Turgeon Prize in French Literature. Established by former students of Professor Turgeon (Amherst College 1926-1969)—To the student who, in the opinion of the faculty in French, has done particularly distinguished work in French literature during the year. *$75 and books awarded to Jerry Karl Scheinfeldt '72.*

GREEK

The William C. Collar Prize. Established by William C. Collar of the Class of 1859—To the freshman who shall make on a written examination the best version in English of a previously unseen page from some Greek author. *$145 to Thomas Francis Curley, Jr. '75.*

The Hutchins Prize, from the income of a fund of $1,400, established by the late Waldo Hutchins of the Class of 1842; $145 is awarded to an upperclassman for excellence in Greek. The scholarship is determined chiefly by the regular recitations and examinations of the department but special studies and examinations may also be required of the candidates. *James Lawrence Butrica '72.*

The Harry deForest Smith Award—To a member of the entering freshman class enrolled in a course in Greek. The award is made on the basis of an examination given at the candidate's school in the March preceding college entrance for students who have studied Greek two or three years at the secondary school level. The amount is based upon financial need as determined by the regular procedures of the College and is renewable in accordance with those procedures. Where there is no financial need, an honorary award of $100 is given for the first year. *No award in 1972.*

HISTORY

The Alfred F. Havighurst Prize—To that student majoring in the Department of History who, in the opinion of the faculty in history, has, in his four years at Amherst College, best fulfilled the standards of excellence and humane scholarship exemplified by Alfred F. Havighurst during the many years (1931-1970) of his teaching career at Amherst College. *$50 to Thomas Ludwig Holzman '72 and $50 to Sean Patrick Walsh '72.*

JOURNALISM

The Samuel Bowles Prize. Established by Samuel Bowles King of the Class of 1902 to stimulate interest in journalism as a career—To a junior or senior who has demonstrated proficiency in journalism. The available income may

be used from time to time for a scholarship or toward a lectureship. *$390 to Frederick William Schneider '73.*

LATIN

The Bertram Prizes. Established by John Bertram of Salem—To students attaining a high average in Latin courses of the senior year who also present the best essays on some approved topic connected with these courses. *$140 to James Lawrence Butrica '72 and $140 to Edward James Vairo '72.*

The Billings Prizes. Established by Frederick Billings in memory of Parmly Billings of the Class of 1884—To students achieving general excellence in the Latin courses of the sophomore year who also present the best essays on some approved topic connected with the authors read in that year. *First Prize: $85 to James David Velleman '74; Second Prize: $40 to Stephen Paterson Belcher, IV '74.*

The Crowell Prizes. Established in memory of Edward Payson Crowell of the Class of 1853—To students of the highest scholarship in the freshman Latin courses; and to students attaining a high average in the Latin courses of the junior year who also present the best essays on some approved topic connected with these courses. *Freshman Awards—$62.50 to Henry James Fishman '75 and $62.50 to Thomas Francis Curley, Jr. '75. Junior Award—First and Second Prize: $125 to Kenneth James Burchfiel, Jr. '73.*

MATHEMATICS, PHYSICS AND ASTRONOMY

The Bassett Physics Prizes. Established by Preston Rogers Bassett of the Class of 1913—To students who have distinguished themselves by the excellence and maturity of their performance in the class and laboratory work of the first course in physics. *First Prize: $150 to David Nicholas Mastronarde '74. Second Prize: $70 to Michael Matthew Soojian '75.*

The Porter Prize. Established by Eleazer Porter of Hadley—For proficiency in first-year astronomy. *$80 to Roland Baker Stoughton '75.*

The William Warren Stifler Prize. Established by Professor Stifler (Amherst College 1925-1953)—To a senior majoring in physics, nominated by the faculty in physics, for excellence in the courses of the junior and senior years, with special weight in the course on electricity and magnetism. *$115 to Bradford Hoadley Hager '72.*

AMHERST COLLEGE

The Walker Prizes. Established by William J. Walker of Newport, Rhode Island—To students achieving proficiency in mathematics of the first and second years as determined by an examination. *First year—First Prize: $200 to Thomas Robert Sheibley '75; Second Prize: $100 to Robert Frederick Conger '75; Second Year—First Prize: $200 to David Nicholas Mastronarde '74; Second Prize: $100 to Wang Kong Cheung '74.*

MUSIC

The Eric Edward Sundquist Prize. Established by the Class of 1936 in memory of Eric Edward Sundquist of the Class of 1936—To a senior who has demonstrated excellence in musical composition and performance. *$50 to Martin Alan Brody '72 and $50 to Robert Lockwood Lind '72.*

PHILOSOPHY AND RELIGION

The Moseley Prizes. Established by Thomas W. H. Moseley of Hyde Park—To seniors for the best essays on a subject pertaining to the study of religion. *First Prize: $510 to Stephen Mark Heim '72; Second Prize: $260 to Gregory Russell Yaw '72.*

PHYSICAL EDUCATION

The Sawyer Prizes. Established by Edmund H. Sawyer (Hon. 1878)—To senior and sophomore students for improvement in the Department of Phyical Education. *Senior Prize: $97.50 to Robert Joseph Rosepink '72. Sophomore Prize: $97.50 to Samuel Boatner '74.*

Sphinx Club Spoon. The Sphinx Club of Amherst College awards the Sphinx Spoon at the annual All-Sports Banquet to: "that member of the student body irrespective of class and not necessarily an athlete, who in the eyes of the Committee consisting of the President of the College, the Dean of the College, the Chairman of the Department of Physical Education and Intercollegiate Athletics, and upon the recommendations of the Sphinx Club, has done the most to promote the interests of athletics at Amherst during the past year—interest to be defined as unusual participation in athletics, or outstanding contribution to the management or promotion of athletics, or in any way focusing the attention of the College or the public on athletics at Amherst College." *Samuel Isadore Rosenberg '72.*

POLITICAL SCIENCE

The Densmore Berry Collins Prize. Given by Miss Margaret S. Densmore in memory of her nephew, Densmore Berry Collins of the Class of 1940—

To the student submitting the best honors thesis in the Department of Political Science. *$25 to John Nicholas Filler '72 and $25 to Clayton Porter Gillette '72.*

PUBLIC SPEAKING

The Bancroft Prizes. Established by Frederic Bancroft of the Class of 1882—To the two seniors who produce the best orations, both composition and delivery being considered in making the awards. *First Prize: $400 to Richard Carey Wailes '72. Second Prize: $230 to Clayton Porter Gillette '72.*

The Bond Prizes. Established by Ephraim W. Bond of the Class of 1841—For the best spoken presentations at the Senior Chapel Service. *No award 1972.*

The Gilbert Prize. Established by William O. Gilbert of the Class of 1890—To the junior who produces the best oration, both composition and delivery being considered in making the award. *$100 to Michael Broad '73.*

The Hardy Prizes. Established by Alpheus Hardy of Boston—For excellence in extemporaneous speaking. *First Prize: $90 to David H. Smilow '74; Second Prize: $40 to Lawrence David Dardick '73.*

The Kellogg Prizes. Established by Rufus B. Kellogg of the Class of 1858—To sophomores or freshmen for excellence in declamation. *First Prize: $70 to Everett Wilbur Jenkins, Jr. '75; Second Prize: $50 to Mark Scott London '74.*

The Rogers Prize. Established by Noah C. Rogers of the Class of 1880—To a junior for excellence in debate. *No award 1972.*

SCHOLARSHIP AND CITIZENSHIP

The Addison Brown Award. Established by Addison Brown of the Class of 1852—To that senior already receiving financial assistance under the regular procedures of the College who shall have attained the highest standing in the studies of the first three years. *$625 to David Samuel Turesky '72.*

The Samuel Walley Brown Award. Established by Samuel Walley Brown of the Class of 1866—To that sophomore who, at the end of the sophomore year, shall, in the estimation of the Trustees, rank highest in his class in character, class leadership, scholarship, and athletic ability. *$625 to Gregory Scott Lewis '73.*

The Computer Center Prize—For outstanding contributions in the application of the computer to a broad range of academic disciplines, and for help to students and faculty at the Computer Center. *Robert Ray Bruner '73.*

The Friends of the Amherst College Library Prizes—To students who demonstrate strong interests in book collecting and who present good beginning collections. *First and Second Prizes: $62.50 to Brian Ephraim Lebowitz '72 and $62.50 to Stephen Slade Smith '73; Third Prize: $40 to Bernard Eric Barbour '72.*

The Frank A. Hosmer Award. Established by Frank A. Hosmer of the Class of 1875—To that sophomore already receiving financial assistance under the regular procedures of the College who shall have attained the highest standing in the studies of the freshman year. (Discontinued after the 1971-72 academic year.) *$600 to Wang Kong Cheung '74.*

The Robert L. Leeds, Jr. Honor Award. Established in honor of Robert Leeds, Jr. of the Class of 1951—To a senior who has demonstrated through action a lasting commitment to projects of social concern. *A $100 bond and an engraved medallion to Peter Michael Shea '72.*

The Gordon B. Perry Memorial Award—To a freshman in good academic standing whose participation and attitude in freshman athletics and other activities are outstanding. *A trophy to Haines Rennyson Merritt, III '75.*

The Porter Admission Prize. Established by Elezaer Porter of Hadley—To the entering freshman who is adjudged to have the best general record on the College Board tests taken for admission to Amherst, the name of the successful candidate and that of his school to be published in the catalog. *$115 to Mark Lawrence Hudak '75.*

The Psi Upsilon Prize. Established by Gamma Chapter of Psi Upsilon in 1941 on the occasion of the Centennial Anniversary of the founding of the Chapter—To that member of the graduating class who, in the opinion of a committee consisting of the President of the College, the Dean, and the Chairman of the Department of Physical Education and Intercollegiate Athletics, is considered to be "The First Citizen of the College." *$445 to Dale Frederick Swartz, III '72.*

The John Sumner Runnells Memorial Prize. Established in memory of John Sumner Runnells of the Class of 1865—To that sophomore who is, in the opinion of the Trustees of the College, preeminent in his zeal for knowledge and industry to attain it. *$625 to George Robert Johnson, Jr. '73.*

The Obed Finch Slingerland Memorial Prize. Established anonymously and awarded by the Trustees of the College—To that junior, who, during his

first three years at Amherst, has shown by his own determination and accomplishment the greatest appreciation of and desire for a college education. *$1,200 to Gregory Louis Leonard '72.*

The Sylvester Award. Given by Albert L. Sylvester of the Class of 1924—To that senior already receiving financial assistance under the regular procedures of the College, who, at the end of the junior year, has combined most clearly outstanding success in extracurricular activities, including athletics, with academic distinction in one or more fields. *$750 to James Bradford Ward '72.*

The Stanley V. and Charles B. Travis Prize. Established by Charles B. Travis of the Class of 1864—To that member of the graduating class who has made the most improvement as a man and as a scholar during his college course. (Combined with The Woods Prize.) *$130 to Eric Putnam Henry '72 and $130 to Gregory Louis Leonard '72.*

The M. Abbott Van Nostrand Prize. Given by The Friends of the Amherst College Library—To that entrant in the student book collection competition who demonstrates considerable experience, knowledge, and ability in book collecting. *No award 1972.*

The Woods Prize. Given in memory of Josiah B. Woods of Enfield—For outstanding excellence in culture and faithfulness to duty as a man and as a scholar, particular attention being given in any prominent case of improvement during the four years' course. (Combined with the Travis Prize.) *$130 to Eric Putnam Henry '72 and $130 to Gregory Louis Leonard '72.*

The Ashley Memorial Trophy. Given by the Class of 1916 in memory of Thomas W. Ashley who was killed in action at Belleau Wood in 1918—To the retiring member of the football team who, in the opinion of a committee consisting of the Coach, the Manager, and the Captain-elect, has best "played the game." *Henry Joseph Adolfi '72.*

The Howard Hill Mossman Trophy—To that senior who, in the opinion of a committee consisting of the President of the College, the Dean, the Chairman of the Department of Physical Education and Intercollegiate Athletics, and the President of the Student Council, has brought, during his four years at Amherst, the greatest honor in athletics to his Alma Mater—the word "honor" to be interpreted as relating both to achievement and sportsmanship. *Gary Eden Haag '72.*

The Lincoln Lowell Russell Prize. Established by J. W. Russell, Jr. of the Class of 1899, in memory of his son—To that member of the graduating class who has done most to foster the singing spirit in Amherst College. *$120 to Clifford Orent '72.*

Degrees Conferred

NOVEMBER 9, 1971

Bachelor of Arts

RITE

Myron Sinclaire Lewis
Southport, Connecticut

Ralph Leslie Mansfield
Honoris Causa
Miami Beach, Florida

JANUARY 22, 1972

Bachelor of Arts

RITE

Wilbert Haywood Grandy, Jr.
Washington, D.C.

Charles Cafritz Wilkes
Bethesda, Maryland

APRIL 8, 1972

Bachelor of Arts

SUMMA CUM LAUDE

Martin Alan Brody
Independent Scholar
With Field Study
Elgin, Illinois

MAGNA CUM LAUDE

Michael Jozef Israels
Anthropology
New York, New York

John Paul Jones
Independent Scholar
Springfield, Massachusetts

Eric Arthur Kriss
Independent Scholar
With Field Study
Stanford, California

Edwin Charles Laurenson
Independent Scholar
North Canton, Ohio

Robert James McNamara
Independent Scholar
New York, New York

Craig Selden McNeer
Independent Scholar
With Field Study
Montpelier, Vermont

CUM LAUDE

Christopher Lloyd Cornell
French
Providence, Rhode Island

Stephen Matthews Foster
Spanish
Andover, Massachusetts

Denis Francis Kelly
Anthropology
Worcester, Massachusetts

Abbott Bennett Lipsky, Jr.
Physics
With Field Study
Cedar Rapids, Iowa

John Howard Peterson
English
With Field Study
New Richmond, Wisconsin

Richard Carl Sandhaus
Independent Scholar
With Field Study
Westport, Connecticut

Michael Devlin Simko
History
Trenton, New Jersey

RITE

Paul Vernon Stevan Benatti
Provincetown, Massachusetts

John Wheeler Bliss
With Field Study
Locust Valley, New York

Eric Stuart Brandt
Orange, Connecticut

Timothy Turner Clegg
Chappaqua, New York

John Harding Horan Collins
Chevy Chase, Maryland

Robert Weld Harding, Jr.
August, Georgia

Whitney William Stark, III
New City, New York

Manuel Michael Urrizola, Jr.
Stockton, California

Robert Roland Weeks
Seattle, Washington

John Rawling Willoughby, III
Warren, Ohio

JUNE 2, 1972

Master of Arts

Harry Geoffrey Morrison
B.A., 1970, Amherst College
American History
Lincoln, Rhode Island

AMHERST COLLEGE

Bachelor of Arts

SUMMA CUM LAUDE

Bruce Gardiner Aitken
Geology
Branford, Connecticut

Stephen Ralph Gang
Economics
Upper Montclair, New Jersey

Bradford Hoadley Hager
Physics
Johnstown, Pennsylvania

Joe Phil Hammond, Jr.
American Studies
Tulsa, Oklahoma

William Doit Hauger
Geology
Westminster, Massachuetts

Stephen Mark Heim
American Studies
Burlington, Vermont

Eric Putnam Henry
English
Wellesley, Massachusetts

Kenneth Allen Hoxsie
Dramatic Arts
Warwick, Rhode Island

Stephen Robert Kessell
Independent Scholar
South Paris, Maine

Brian Ephraim Lebowitz
Economics
Austin, Texas

David Jeffrey Levenson
Chemistry
Pittsburgh, Pennsylvania

Lee Sumner Richards, III
English
Bedford, New York

Jerry Karl Scheinfeldt
French
East Hartford, Connecticut

David Samuel Turesky
American Studies
Portland, Maine

MAGNA CUM LAUDE

Bruce Edgarton Allen
Anthropology
With Field Study
Canton, Massachusetts

Bernard Eric Barbour
Independent Scholar
East Orange, New Jersey

Mark Filbert Bevan
Psychology
Baltimore, Maryland

James Brown Bittman
Economics
Ann Arbor, Michigan

Thomas Wrightington Blackwell
Economics
Lexington, Massachusetts

Mitchell Warren Blair
English
Malverne, New York

David Gregory Brailow
Independent Scholar
Keuka Park, New York

Nicholas Knowles Bromell
Interdisciplinary:
Classics and Philosophy
Hadley, Massachuetts

James Lawrence Butrica
Independent Scholar
Magnolia, New Jersey

Scott Glenn Campbell
Political Science
Wethersfield, Connecticut

David Randall Case
American Studies
East Grand Rapids, Michigan

Anthony Sing Lam Chan
Independent Scholar
Honolulu, Hawaii

Edward Beecher Claflin
English
Cleveland, Ohio

Jeffrey Alan Craven
Chemistry
Pittsford, New York

William David Diamond
Political Science
Westport, Connecticut

Gregory Allen Domingue
Black Studies
Baton Rouge, Louisiana

William Alan Doubleday
Independent Scholar
Amherst, Massachusetts

John Nicholas Filler
Political Science
Williamstown, Massachusetts

Jay Robert Franke
Economics
Milwaukee, Wisconsin

Clayton Porter Gillette
Political Science
New Haven, Connecticut

Harold Damery Gordon
Psychology
Schenectady, New York

Charles Scott Hammen
Independent Scholar
Amherst, Massachusetts

Selwyn Barton Hoag, III
Interdisciplinary:
Images of Man
With Field Study
Littleton, Colorado

Thomas Ludwig Holzman
History
Lexington, Massachusetts

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With Field Study
Hadley, Massachusetts

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Binghamton, New York

Douglas Clark Johnson
Biophysics
Bethesda, Maryland

Stuart George Katz
Independent Scholar
Bloomfield, Connecticut

Michael Harry Kelleher
Chemistry
Medfield, Massachusetts

Mark Jeffrey Kuperberg
Political Science
Flushing, New York

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Music
Farmingdale, Maine

Thomas Roger Lipscomb
Psychology
Wilmington, Delaware

Albert Edward Mead, Jr.
English
San Marino, California

John Christopher Orr
English
Fruita, Colorado

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Independent Scholar
Fredericksburg, Virginia

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Aurora, New York

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Biology
Valley Stream, New York

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Independent Scholar
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Horace Anthony Porter
American Studies
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Litchfield, Connecticut

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Black Studies
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American Studies
Jamestown, New York

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With Field Study
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McLean, Virginia

Laurence Bodine
European Studies
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English
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Fine Arts
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Middlebury, Connecticut

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Raleigh, North Carolina

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Dover, Massachusetts

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Chestnut Hill, Massachusetts

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La Mesa, California

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Ivyland, Pennsylvania

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Simsbury, Connecticut

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Worthington, Ohio

Richard Radcliffe Hastings
Wilton, Connecticut

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Seattle, Washington

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Williamsburg, Massachusetts

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New York, New York

Napoleon Jasper, Jr.
St. Louis, Missouri

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Wakefield, Massachusetts

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Abington, Pennsylvania

Timothy Cornelius Murphy
Stoneham, Massachusetts

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Orange, New Jersey

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Shaker Heights, Ohio

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Greenwich, Connecticut

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Purchase, New York

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Dallas, Texas

Peter Edgecomb Sinclaire
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Russell Eugene Williams
Savannah, Georgia

Yasuhiro Yano
Ashiya-Shi Hyogo, Japan

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SEPTEMBER 9, 1971

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Ralph Everett Beals
Richard David Fink
Allen Guttmann

JUNE 2, 1972

DOCTOR OF HUMANE LETTERS

Victoria DeLee
Eric Pratt Hamp 1942

DOCTOR OF LETTERS

Robert Sanford Brustein 1947
Thomas Porter Whitney 1937

DOCTOR OF SCIENCE

William Martin Fairbank

DOCTOR OF LAWS

Edward William Brooke
Colin Goetze Campbell
David Burton Durk 1957
Patrick Healy, Jr. 1932
Ralph Nader

MEDAL FOR EMINENT SERVICE

Miner Dunham Crary 1942

V

ENROLLMENT

Enrollment

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Allentown, Pennsylvania

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Lakewood, New Jersey

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Wauwatosa, Wisconsin

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Worcester, Massachusetts

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Miami, Florida

Anderson, Robert Elmer, Jr.
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Stamford, Connecticut

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Beckwith, Mark Monroe
Darien, Connecticut

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Clarks Summit, Pennsylvania

Bellante, John Lawrence
Clarks Summit, Pennsylvania

Bennett, Christopher Martin
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Bisiewicz, Alan Walter
Holyoke, Massachusetts

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Blowing Rock, North Carolina

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Milwaukee, Wisconsin

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Lynnfield, Massachusetts

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Manchester, New Hampshire

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Framingham, Massachusetts

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Winnetka, Illinois

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Pittsford, Vermont

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Timonium, Maryland

Carbone, Salvatore Joseph
Fonda, New York

Caroff, Peter
New York, New York

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Hempstead, Long Island, New York

Caviston, Kerry Howard
Wenham, Massachusetts

Cawley, Michael Carroll
Bristol, Connecticut

Clark, William Howard, Jr.
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Cleveland, Russell Milner
North Hadley, Massachusetts

Cline, Craig Emerson
Williamsport, Maryland

Cochran, Stephen Larcher
Chevy Chase, Maryland

Cohen, Kenneth Robert
White Plains, New York

Cohen, Richard Bruce
East Rockaway, New York

Cohn, Daniel Richard
Stamford, Connecticut

Collins, Patrick Michael
Branford, Connecticut

Conger, David Trist
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Connelly, Christopher James
Turners Falls, Massachusetts

Connelly, John Walter
Amherst, Massachusetts

Cornigans, Robert Lee
Bay Shore, New York

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D'Andrea, John Joseph
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Danielson, Richard Warren
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Wellesley Hills, Massachusetts

Dardick, Lawrence David
New Haven, Connecticut

Davis, Sidney James, Jr.
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Dean, Robert Lee
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DeMartine, Joseph Robert
BW Dist. Consol. Mail, APO, N.Y.

Dibble, Stephen George
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Dillon, Carl Frederick, Jr.
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Nanuet, New York

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Eastburn, David Rodman
Doylestown, Pennsylvania

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Edelman, Leon Frederick
Glencoe, Illinois

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South Orange, New Jersey

Ehrgood, Thomas Alexander, Jr.
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Fort Worth, Texas

Emanuel, Steven Lazar
Teaneck, New Jersey

Epstein, Andrew Ernest
Ann Arbor, Michigan

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Needham, Massachusetts

Feuerstein, Lee William
New York, New York

Fox, John Martin
Lancaster, Pennsylvania

Franchot, Peter Van-Rensselaer
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Franklin, Presley
Marks, Mississippi

Galloway, Edward Hines
Greensboro, North Carolina

Galvin, James Terence
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Gentilli, Richard Emile
Milan, Italy

Gerchick, Mark Lawrence
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Swansea, Massachusetts

Gold, Kenneth David
Plainview, New York

Golenbock, Jeffrey Taylor
Scarsdale, New York

Goodman, Alan Robert
Ware, Massachusetts

Gordon, David
Silver Spring, Maryland

Green, Stephen Lloyd
Amherst, Massachusetts

Gumport, Michael Andrew
New York, New York

Haggerty, Kevin Patrick
Arlington, Virginia

Hall, Burton Robert
Bethesda, Maryland

Hall, Theodore Ray
Tulsa, Oklahoma

Hamilton, John Francis
Forestville, Connecticut

Harris, Bruce Anthony
Cedar Rapids, Iowa

Harris, Isaac Anthony, Jr.
Darien, Georgia

Hasen, John Hunnewell
New York, New York

Hayden, Jonathan Brewster
Yarmouth, Maine

Hayes, Gregory Michael
River Forest, Illinois

Heald, Geoffrey Thayer
Hingham, Massachusetts

Helfand, David John
Sunderland, Massachusetts

Hicks, Robert Christopher
Los Angeles, California

Higgins, Alfred Clinton
Washington, D.C.

Hilbert, Christopher Robin
Indialantic, Florida

Hoag, John Aronow
Grosse Pointe, Michigan

Hoke, Martin Rossiter
Lorain, Ohio

Holmes, Richard Douglas
Howard Beach, New York

Hopfan, Job
Roslyn Heights, New York

Horbar, Gary Michael
East Rockaway, New York

Hunter, Richard Hudspeth
Cresskill, New Jersey

Huskins, Kenneth Robert
Hempstead, New York

Iwanski, Jerald Richard
Sterling Heights, Michigan

Jacob, William Carroll, Jr.
Larchmont, New York

Jaeger, R. Lloyd
Suffern, New York

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Wilbraham, Massachusetts

Johnson, George Robert, Jr.
Columbus, Georgia

Johnson, Ralphael Tyrone
St. Albans, New York

Johnston, Eric Richard
London, W.I., England

Jones, Albert Richard, III
Worcester, Massachusetts

Jones, Kenneth Leroy
Kinston, North Carolina

Kaiho, Kazuhiro
Nara-shi, Nara-ken, Japan

Kaufman, Daniel Jonathan
Great Neck, New York

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Keith, Stephen Norbert
Chicago, Illinois

Keller, Geoffrey Lynn
Pasadena, California

Kessler, David Aaron
Freeport, New York

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Swampscott, Massachusetts

Ketting, Jaap Jan
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King, Edward Chian-Shuan
Bethesda, Maryland

Kingman, Robert Edwin
Wayzata, Minnesota

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Havertown, Pennsylvania

Klutchko, Bruce Stewart
Farmingdale, New York

Koch, Douglas Donald
North Street, Michigan

Kornblith, Gary John
Pound Ridge, New York

Kowal, George Peter Paul
Glenview, Illinois

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Bethesda, Maryland

Lachman, Charles Scott
New York, New York

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Lavigne, Robert George
Hartford, Connecticut

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Shaker Heights, Ohio

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Leskowitz, Eric David
Framingham, Massachusetts

Levin, Theodore Craig
Weston, Massachusetts

Lewis, Gregory Scott
New Canaan, Connecticut

Libby, Thomas Gerold
Hastings-on-Hudson. New York

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Needham, Massachusetts

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Weymouth, Massachusetts

Neustadt, Ira
Florida, New York

Newton, Ratliff Michael
Chicago, Illinois

Norman, Alan David
Brookline, Massachusetts

Noyes, John Ely
Amherst, Massachusetts

O'Brient, James David
Danvers, Massachusetts

O'Neil, William Bruce
Concord, Massachusetts

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St. Louis, Missouri

Orme, Eric Charles
Salt Lake City, Utah

Paine, Robert, III
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Amherst, Massachusetts

Pascone, David John
Johnston, Rhode Island

Patterson, John Thomas
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Pease, William Thompson
Wilmington, Delaware

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Vernon, Connecticut

Phillips, William Walter
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Hornell, New York

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Sawyers, Peter Cobb
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Woodbourne, New York

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Georgetown, South Carolina

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Yonkers, New York

Schneider, Paul Robert
Tucson, Arizona

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Wayland, Massachusetts

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Sherborn, Massachusetts

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Federal Way, Washington

Shak, Steven
Cranford, New Jersey

Shepard, Thomas Rockwell, III
Greenwich, Connecticut

Shuck, John DeWitt
Minneapolis, Minnesota

Shulman, George Mark
Mountainside, New Jersey

Simpson, Thomas Braddock, III
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Skeele, John Franklin
New Canaan, Connecticut

Sklover, Alan Lawrence
Malverne, New York

Skove, Thomas Malcolm, Jr.
Shaker Heights, Ohio

Skubi, Craig Anthony
Seattle, Washington

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LaGrange, Georgia

Smith, Stephen Slade
Rochester, New York

Sosnow, Peter Lewis
Freeport, New York

Springer, Allen Lawrence
Geneva, New York

Squire, Jeffrey Harold
Levittown, Pennsylvania

Stern, Chester Jay
Denver, Colorado

Stickney, Kenneth John, Jr.
Cranston, Rhode Island

Stisser, Robert Gridley
Riverside, Connecticut

Straub, Kenneth Marshall
APO San Francisco, California

Stringer, John Arbuthnott
Darien, Connecticut

Swann, John Thomas
Knoxville, Tennessee

Swanson, Jay Williams
Orchard Park, New York

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Tallow, Matthew Alan
West Hartford, Connecticut

Tasch, Edward Bennett
Stamford, Connecticut

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Thaler, Malcolm Stuart
Poughkeepsie, New York

Tinker, David Duncan
Easton, Maryland

Tolle, Stephen John
Hingham, Massachusetts

Tonino, Richard Philip
West Hartford, Connecticut

Trueheart, Charles
Maxwell A.F.B., Alabama

Unfug, Charles Stephen
Fort Collins, Colorado

Uyehara, Christopher Ken
West Chester, Pennsylvania

Vaughan, Frank Apthorp
Marshfield, Massachusetts

Viner, Brant Leed
Washington, D.C.

Walker, Geoffrey Stearns
River Forest, Illinois

Waller, Donald Macgregor
Indianapolis, Indiana

Ware, David Keith
Manchester, Connecticut

Webb, Alexander Henderson
New York, New York

Weiss, Stephen Mark
New York, New York

Wetrich, William Wallace
Claremont, California

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Darien, Connecticut

Whittenberger, Brock Poston
Grand Rapids, Michigan

Whyte, Eric Henry Archibald
Andover, Massachusetts

Wicklatz, James David
Wayzata, Minnesota

Widmer, James Edward
Wayne, Pennsylvania

Wilbur, Nathan Lord
Cummington, Massachusetts

Williams, Jerre Stockton, Jr.
Austin, Texas

Wilson, Robert Milton, Jr.
Hartford, Connecticut

Wingo, Anthony Kevin
Washington, D.C.

Winkelman, Marc David
Cleveland, Ohio

Winkler, Peter David
Bethesda, Maryland

Wojcik, David Albin
Ware, Massachusetts

Wolf, Leslie Eric
Shaker Heights, Ohio

Wolff, Richard Arnold
Winnetka, Illinois

Wolpaw, Daniel Rick
Shaker Heights, Ohio

Woolverton, William Henderson, III
East Norwich, L. I., New York

Wooten, William Daniel, Jr.
Lynchburg, Virginia

Wright, Charles Edward
Villanova, Pennsylvania

Wyman, James Nayler
Amherst, Massachusetts

Yock, Paul Gordon
St. Louis Park, Minnesota

Young, Elmer Lorne
Harrison, New York

Young, Ronald Henry
Fort Pierce, Florida

Zametkin, Alan Joel
Providence, Rhode Island

Zaret, David Raphael
Great Neck, New York

Zickel, Mark Henry
Santurce, Puerto Rico

Zurkow, Jeffrey Leaf
Dover, Delaware

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Roslyn Harbor, New York

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Windsor, Connecticut

Bancroft, Peter Ernest
Kennebunkport, Maine

Bardolph, Richard, Jr.
Greensboro, North Carolina

Barry, Patrick Sean
Dover, Massachusetts

Barton, William Thomas
Summit, New Jersey

Beinhorn, Will Alston
San Antonio, Texas

Belcher, Stephen Paterson, IV
Washington, D.C.

Benko, Ralph J.
Albany, New York

Bennett, Ralph Edward
Greenwich, Connecticut

Bennison, John Brice
Eastham, Massachusetts

Berns, Mitchell
Ossining, New York

Blistein, David Schaffer
Providence, Rhode Island

Boehm, Stephen Jordan Griffith
Bethesda, Maryland

Bonanno, Joseph Anthony James
Tenafly, New Jersey

Bonica, John Richard
North Bergen, New Jersey

Bosworth, Robert Everett
Amherst, Massachusetts

Brawley, Peter Edward
Stratford, Connecticut

Brennecke, Thomas Raymond
Marshalltown, Iowa

Browne, Henderson Joseph, IV
Washington, D.C.

Bruno, Thomas Joseph, II
Philadelphia, Pennsylvania

Bryant, Stephen Chandler
Winchester, Massachusetts

Buchanan, John Andrew
Moorestown, New Jersey

Buchert, Peter Kenneth
Columbia, Missouri

Buscaglia, John William
Buffalo, New York

Cardwell, Michael Earl
Lynchburg, Virginia

Carol, Mark Philip
Mamaroneck, New York

Carpenter, Stephen Russell
Bethesda, Maryland

Catto, Alistair John Alexander
Forfar, Angus, Scotland

Champagne, Oliver William Robert, Jr.
Paris, France

Chenault, Stephan Charles
Hempstead, New York

Cheung, Wang Kong
Hong Kong

Chiba, Shin
Miyagi-Ken, Japan

Cleaver, Richard Grinnell
Grinnell, Iowa

Coates, Norman Francis, Jr.
Worcester, Massachusetts

Cohen, Robert Maynard
Chevy Chase, Maryland

Collins, Robert Deaver, Jr.
Nashville, Tennessee

Conley, Christopher Redifer
Manchester, Massachusetts

Considine, Michael John Robert
Torrington, Connecticut

Cooke, William Owen, Jr.
Greensboro, North Carolina

Cornell, Paul Vance
County Waterford, Ireland

Couch, Reese Francis
Philadelphia, Pennsylvania

Crossland, Fred Eugene, Jr.
Montvale, New Jersey

Crowe, Joseph Patrick, Jr.
Shaker Heights, Ohio

Cruikshank, Jeffrey Lloyd
Maplewood, New Jersey

Cummings, George Edward
Waltham, Massachusetts

Curry, Dennis Lackey
New Rochelle, New York

Dangremond, David William
Seneca Falls, New York

Dash, George Bertram
Wyncote, Pennsylvania

Davis, Charles Talcott, II
Bloomfield, Connecticut

Davis, Howard Zeleg
Broomall, Pennsylvania

Dean, Robert Maitland
North Scituate, Rhode Island

Demick, David Francis
Pittsfield, Massachusetts

Dennis, Edward Forrest
Houston, Texas

Doherty, Adrian Walters, Jr.
Short Hills, New Jersey

Donaldson, Charles Walter, Jr.
Huntsville, Alabama

Donati, Gianni Corso
Marblehead, Massachusetts

Doolittle, William David
Leawood, Kansas

Dorsey, James Willis
Philadelphia, Pennsylvania

Douglass, David Latham
Marblehead, Massachusetts

Douglass, Malcolm Paul, Jr.
Claremont, California

Dowling, Mark Woods
Wilton, Connecticut

Dube, David Harvey
DeWitt, New York

Dumont, Gabriel Oliver, Jr.
Newton Square, Pennsylvania

Dunnings, Stuart John, III
Lansing, Michigan

Duvall, Mark Nichol
Alexandria, Virginia

Echelbarger, Lindsey Leo Robinson
Lynnwood, Washington

Eddy, Robert Douglas
Pinehurst, Massachusetts

Eichen, Glenn Neal
Hollis, New York

Eisen, Armand Avram
Prairie Village, Kansas

Ellen, Kenneth James
Winnetka, Illinois

Elovitz, Gerald Paul
York, Pennsylvania

Epstein, Daniel Mark
Philadelphia, Pennsylvania

Ettinghausen, Stephen Edmund
Princeton, New Jersey

Farrell, Glenn Michael
Woodland Hills, California

Ferm, William Nelson
South Hadley, Massachusetts

Fitts, Frederic Perry
Potomac, Maryland

Fort, Andrew Osmun
Plainfield, New Jersey

Francis, Henry Lloyd, Jr.
Waterbury, Connecticut

Franklin, Kenneth William
Westbury, New York

Freeman, Peter Crosby
Lake Bluff, Illinois

Freudenthal, David Duane
Thermopolis, Wyoming

Frew, Scott Little
Woodbury, Connecticut

Frost, Anthony De Witt
Fairfield, Connecticut

Furbush, Craig Marland
South Portland, Maine

Glista, Mark
Centerville, Massachusetts

Glover, Kenneth Elijah
North Englewood, Maryland

Goldring, Louis Mark
Jackson, Michigan

Goldshein, Mark Gilbert
New York, New York

Goodman, Jeffrey Howard
Portland, Maine

Gordon, Andrew Kenley
Bellevue, Washington

Gordon, Eric Rodney
Winston-Salem, North Carolina

Gordon, Frank Stephen
Bethesda, Maryland

Gordon, Michael
Beachwood, Ohio

Goulston, Richard Bruce
Brookline, Massachusetts

Gowdy, David Philip Wayne
Scotch Plains, New Jersey

Graves, William James
Peacham, Vermont

Greene, William Ellery, III
Bronxville, New York

Guild, Peter Bradford
Augusta, Maine

Ha, Quoc-Cuong
Saigon, Vietnam

Hankin, Christopher Gallup
Potomac, Maryland

Hardy, Michael Andrew
Mount Pocono, Pennsylvania

Harris, Nicholas Bennett
New York, New York

Hart, George William, III
Pueblo, Colorado

Hay, Joel Walker
Portland, Oregon

Hayner, Thomas Aquinas
Lexington, Massachusetts

Healy, William Lawrence, III
Needham, Massachusetts

Heffernan, Edwin James
Kennebunk, Maine

Hickey, Thomas Richard, Jr.
Westport, Connecticut

Hinckley, Stephen Mark
Hardwick, Massachusetts

Hollister, John Baker, III
Gates Mills, Ohio

Holt, Christopher Evan
Baldwinsville, New York

Horsmon, Terry Wayne
Santa Barbara, California

Hottensen, Robert Garner, Jr.
Milwaukee, Wisconsin

Howard, Donald James
Manhassett, New York

Howarth, Robert Warren
Durham, New Hampshire

Hunt, Gordon Lester
East Sandwich, Massachuestts

Ives, H. Russell
Birmingham, Michigan

Jackson, Prescott Burns
Danvers, Massachusetts

Jeanloz, Raymond Francois
Newton, Massachusetts

Johnson, Daniel Cameron
Rumford, Maine

Johnston, Thomas Cole
Flossmoor, Illinois

Kahn, Michael Andrew
University City, Missouri

Kaminer, Stevenson Scott
New York, New York

Kerst, R. Duncan
Katonah, New York

Kimberly, David Robinson
New Haven, Connecticut

Kirschbaum, Thomas Avrom
Belvedere, California

Klancnik, Thomas Evans
Park Ridge, Illinois

Klonoski, Richard Francis
Bristol, Connecticut

Kramer, Harvey Merrill
Margate, New Jersey

Lacey, John Fairbank
Mendham, New Jersey

Lacher, David
Syracuse, New York

Laff, Kenneth Martin
Englewood, Colorado

Lamont, William James
South Dennis, Massachusetts

Landau, Robert Walter
Asuncion, Paraguay

Landman, Jonathan Isaac
New York, New York

LaPointe, Paul Reggie
Milwaukee, Wisconsin

Lawrence, Andrew Charles
Chevy Chase, Maryland

Leach, Thomas Raeside, Jr.
St. Albans, New York

Lee, Rodney Butts
Birmingham, Alabama

Levy, Martin William
Teaneck, New Jersey

Lipton, Richard Mark
Youngstown, Ohio

Listro, Donald Anthony
Manchester, Connecticut

Livingston, Peter
Seattle, Washington

London, Mark Scott
New York, New York

Long, David Fullerton
Swarthmore, Pennsylvania

Long, Joseph Vincent, III
Potomac, Maryland

Long, Michael Paul
Spring Valley, New York

Longley, Jonathan Raymond Wayne
Springfield, Massachusetts

Lowe, Stephen Russell
Columbus, Georgia

MacArthur, Douglas Lee
Methuen, Massachusetts

MacLachlan, David Campbell
Erie, Pennsylvania

Magdaleno, Thomas
Los Angeles, California

Maitland, James Campbell
Northfield, Minnesota

Mallon, James A.
Alexandria, Virginia

Malone, William Eugene
Forest Park, Illinois

Mangini, Mark
Darien, Connecticut

Manly, Marc Edward
Kokomo, Indiana

Manstein, Mark Eric
Rydal, Pennsylvania

Mastronarde, David Nicholas
Buffalo, New York

Maxwell, Alvin
Los Angeles, California

McDermott, Brian Emerson
Manhasset, Long Island, New York

McGuire, Michael Robert
Owatonna, Minnesota

McMahon, William Coulson, Jr.
Plandome, New York

Meader, Dwight Derek
Tarrytown, New York

Medley, Terry Lonzo
Nokesville, Virginia

Messenger, John Barss
Larchmont, New York

Metz, John Robert, Jr.
Syracuse, New York

Michelson, Edward Barry
West Roxbury, Massachusetts

Miles, Louis Russell
Helena, Montana

Miota, Randolph Hideo
Honolulu, Hawaii

Mitamura, Hideto
Tokyo, Japan

Mondschein, Jeffrey Marc
Monsey, New York

Moriarty, David Michael
Oxford, Massachusetts

Mount, Keith Alden
Warren, New Jersey

Murphy, John Cullen, Jr.
Cos Cob, Connecticut

Nadworny, Howard Alan
Burlington, Vermont

Nizin, Joel Scott
New York, New York

Notopoulos, Alexander Anastasios, Jr.
Hollidaysburg, Pennsylvania

Noyes, Duncan Lowell
Amesbury, Massachusetts

Nunn, Jeffrey Allen
Weston, Connecticut

Nussbaum, Mark Stephen
West Hartford, Connecticut

O'Brien, Kevin John
Enfield, Connecticut

O'Neill, Thomas Robert
Rochester, New York

Orlik, Randy Phillip
Dallas, Texas

Orozco, Edmundo Jose
Carlsbad, New Mexico

Osborn, Jeffrey Lynn
Sturgis, Michigan

Ostner, Steven Mark
Valley Stream, New York

Owens, Franklin, Jr.
Des Moines, Iowa

Owens, Thomas Lyon
Wayzata, Minnesota

Paige, Steven Harlan
Amherst, Massachusetts

Parker, Phillip Noyes
New Canaan, Connecticut

Perkins, John Earl, III
Baton Rouge, Louisiana

Pierce, Michael Jerome
Columbus, Georgia

Poliakoff, Steven Jon
Merchantville, New Jersey

Powell, William John, III
Industry, Pennsylvania

Purdy, Marshall Bartlett
Philadelphia, Pennsylvania

Rafferty, Michael Paul
East Longmeadow, Massachusetts

Rasmussen, John Arnold Vincent
Ansonia, Connecticut

Rayment, David William
Hyannis, Massachusetts

Reichard, Theodore Carl, Jr.
Noank, Connecticut

Reichstein, Robert Paul
Chicago, Illinois

Reingold, Paul Dennis
Bow, New Hampshire

Richards, Douglas Gordon
Chatham, New Jersey

Ritter, Thomas Drummond
Hartford, Connecticut

Rogawski, Michael Andrew
Los Angeles, California

Rollins, Barrett Jon
Shaker Heights, Ohio

Rosenfield, Harvey Jay
Randolph, Massachusetts

Rubendall, Robert Lee, Jr.
Halifax, Pennsylvania

Rumpler, Thomas Stuart
Cincinnati, Ohio

Ruotolo, Andrew Keogh, Jr.
Westfield, New Jersey

Ryans, Albert
Dorchester, Massachusetts

Salem, Robert Joseph
North Brookfield, Massachusetts

Samaras, Andonis Constantinos
Athens, Greece

Sampson, Ronald Stephen
Elizabeth, New Jersey

Satran, David
Hicksville, New York

Schissel, Donald John, Jr.
Des Moines, Iowa

Schlesinger, Peter Alan
Great Neck, New York

Schnitker, John Peter
Toledo, Ohio

Scott, Freddie Lee
Pine Bluff, Arkansas

Scott, Richard Paul
North Merrick, New York

Scroggins, Stephen Rayburn
Milwaukee, Wisconsin

Scurrah, Thomas Mark
Delmar, New York

Selinger, Joseph Jerome, Jr.
Wilton, Connecticut

Semlear, Robert Dwight
Sag Harbor, New York

Senft, Stephen Lamont
Providence, Rhode Island

Severni, William Justin
Avon, Connecticut

Shaw, Albert Park, III
Hartford, Connecticut

Shaw, Casper
New York, New York

Shaw, Joshua Hamblen
Tacoma, Washington

Shay, Arthur George
Orange, New Jersey

Shipper, Edward Stanley, Jr.
Florence, Alabama

Shortt, Bruce Nevin
Federal Way, Washington

Sils, Peter
Concord, Massachusetts

Simmons, Peter Alan
Winchester, Massachusetts

Sims, Peter Jay
New Rochelle, New York

Skeele, Charles Richardson
New Canaan, Connecticut

Skovgaard, Robert Alan
Stamford, Connecticut

Smilow, David H
South Orange, New Jersey

Smith, Peter Whitall
Meadowbrook, Pennsylvania

Sommer, Philippe Lazare Felix
New York, New York

Soyster, Thomas William
Tenafly, New Jersey

Spaeth, Edmund Benjamin, III
Philadelphia, Pennsylvania

Spiegel, Ladd
Silver Spring, Maryland

Spivack, Eric D.
New York, New York

Springer, Martin Ferdinand Bligh
Northfield, Illinois

Steinbrook, Robert Louis
Wynnewood, Pennsylvania

Sullivan, Neil
Bloomfiield Hills, Michigan

Tanner, Richard Dean
Palo Alto, California

Tariot, Pierre Nelson
Weston, Massachusetts

Taylor, William Thomson
Wyncote, Pennsylvania

Teare, John Andrew
Lynnfield, Massachusetts

Telfer, James Laureston
Bloomfield Hills, Michigan

Thayer, Lucius Harrison, III
Chestnut Hill, Massachusetts

Theismann, John August
Mayville, New York

Thibodeau, Arthur Ernest
Beverly, Massachusetts

Thomas, Edward Arthur, Jr.
North Haven, Connecticut

Thomas, Glenn Ellwood
Louisville, Kentucky

Thomson, Richard Thomas
Excelsior, Minnesota

Tidwell, Geoffrey Beatty
New York, New York

Tietjen, Richard Doremus, Jr.
Old Saybrook, Connecticut

Torch, Christopher Carl
Mayfield Heights, Ohio

Trageser, Charles Stewart
Wayland, Massachusetts

Trautmann, Charles Home
Islesboro, Maine

Tshibangu, Raphael Tshisanbu
Panda, R.D., Congo

Tuck, Andrew Philip
Scarsdale, New York

Turner, James Earl
Calumet City, Illinois

Tuunanen, Michael James
Fitchburg, Massachusetts

Vayer, Marshall Scott
Longmeadow, Massachusetts

Velleman, James David
Port Washington, New York

Waddell, William Stewart, Jr.
Wilton, Connecticut

Wade, Jeptha Alan, III
Saratoga, California

Wahlers, John Ludwig
Sandusky, Ohio

Warren, James Cassel
New York, New York

Washington, Kenneth Lamont
New York, New York

Washington, Michael Edward
East Cleveland, Ohio

Watts, William Wadsworth, III
Glencoe, Illinois

Weaver, William Frederick
Shelton, Connecticut

Webb, Peter Gallett
Remsenburg, New York

Webber, Peter Colbourne
Great Barrington, Massachusetts

Weber, Douglas Ely
Wheaton, Illinois

Weller, Keith Richard
East Grand Rapids, Michigan

Whalen, Richard Mark
North Branford, Connecticut

Whitehead, James Fraser
Syracuse, New York

Wieder, Robert Kelman
Wethersfield, Connecticut

Wilcoxon, Hardy Culver, Jr.
Nashville, Tennessee

Williams, Norman Joseph
Chicago, Illinois

Winslow, Christopher
Tiburon, California

Winslow, Dalton Smith
Caribou, Maine

Winterling, Paul Joseph Michael
Baltimore, Maryland

Wisniowski, Dennis Marc
Holyoke, Massachusetts

Wissow, Lawrence Sagin
North Plainfield, New Jersey

Wynn, Ronald Jefferson
Knoxville, Tennessee

Zink, Paul Alexander
Yarmouth Port, Massachusetts

Sophomores Class of 1975

Abrahamson, Kip Loring
Minneapolis, Minnesota

Abramson, Stephen Nathaniel Jr.
St. Albans, New York

Aldridge, David Franklin
Clinton, New York

Alfvin, Peter Wesley
Glenview, Illinois

Allen, James Roy II
New York, New York

Amsterdam, James Todd
Bala Cynwyd, Pennsylvania

Anderson, David Allen
Washington, D.C.

Ayres, Thomas Jordan
Metuchen, New Jersey

Balaban, David Neil
North Bellmore, New York

Balder, Andrew H.
Miami Beach, Florida

Balzotti, James Don
East Boston, Massachusetts

Barnett, James Richardson
Dobbs Ferry, New York

Bartels, Stephen James
Weston, Massachusetts

Bates, Jonathan Hartley
New Canaan, Connecticut

Beatty, Roger Banks
Darien, Connecticut

Benedict, Charles Chauncey, II
Williamstown, Massachusetts

Berk, Bradford Charles
Rochester, New York

Berman, Charles Henry
Hamden, Connecticut

Berry, George Thomas Jr.
Rye, New Hampshire

Bonsall, David Alan
Houston, Texas

Boom, Willem Henry
Hengelo, Netherlands

Brigham, Robert Hoover
West Chester, Pennsylvania

Broadhead, William Almet II
Jamestown, New York

Brooks, Laurence Oakley
Bedford Hills, New York

Brown, S. Kevin
New Rochelle, New York

Burns, Joseph Kevin Paul
Milford, Connecticut

Caldwell, David Manchester III
Manchester, Connecticut

Carver, Robert Howard
Marblehead, Massachusetts

Chiu, Denny
Seattle, Washington

Chmiel, Michael Alan
Minneapolis, Minnesota

Chu, James Sze-wah
Tokyo, Japan

Chu, Raymond Wai-Ming
Brooklyn, New York

Clark, Charles Howell Jr.
Washington, D.C.

Clary, Richard Wayland
St. Paul, Minnesota

Clopeck, Jeffrey Arnold
Framingham, Massachusetts

Cobb, Lincoln Cranston
Dallas, Texas

Cohen, Matthew
Southampton, Pennsylvania

Coker, David Carlyle
Alexandria, Virginia

Cole, Jonathan Jay
New York, New York

Collins, Tucker Otis
Bay Village, Ohio

Conger, Robert Frederick
Summit, New Jersey

Conway, Stephen Robert
West Hartford, Connecticut

Cox, William Ruffin III
New Hartford, New York

Coy, Roger Elliot
Mt. Vernon, New York

Cramer, Bruce Thomas
Noank, Connecticut

Crary, Horace Ingraham Jr.
New Canaan, Connecticut

Crary, Miner Allen
Northport, New York

Crease, Robert Poole Jr.
Chagrin Falls, Ohio

Cummings, Floyd, Jr.
Aiken, South Carolina

Curley, Thomas Francis, Jr.
New York, New York

Davis, Charles Walker
Warren, Pennsylvania

Davis, Jonathan Tyler
Kensington, England

de la Rama, Jesse III
Bronx, New York

DeBevoise, Malcolm Bush
Montclair, New Jersey

Dee, John Clark
St. Louis, Missouri

Dodds, George Matthew
Edwards, New York

Dow, Gregory Keith
Seekonk, Massachusetts

Doyle, John Justin Jr.
Rye Beach, New Hampshire

Dozier, Christopher Cutler
St. Paul, Minnesota

Duff, Charles Blake Jr.
Baltimore, Maryland

Dumaine, Brian Henry
Hampton, New Hampshire

Dunbar, David Stuart
Exeter, New Hampshire

Dunn, Herman Lee
Washington, D.C.

Dunn, William Michael
Holyoke, Massachusetts

Dykens, Jeffrey Scott
Concord, New Hampshire

Eastburn, Stephen Frazier
Doylestown, Pennsylvania

Edlund, Matthew Jonathan
Great Neck, New York

Edmonston, John McCombie
Pasadena, California

Ellis, Frank Plunkett IV
Mobile, Alabama

Elson, Mark Andrew
Brookfield, Wisconsin

Fairley, Peter Rush
Bennington, Vermont

Feder, Robert Todd
St. Paul, Minnesota

Fenson, Eitan Moshe
Brooklyn, New York

Ferguson, David William
Orchard Park, New York

Fisher, William Weston III
Granby, Connecticut

Fishman, Henry James
Cheshire, Connecticut

Fitzgerald, Michael Thomas
Needham, Massachusetts

Foldes, Peter John
Lafayette Hill, Pennsylvania

Fotiades, George Louis
Naperville, Illinois

Fox, Peter Anderson
Darien, Connecticut

French, John David
Rochester, New York

Garcia, Gilberto Leal
Corpus Christi, Texas

Gargano, Peter Joseph
Wakefield, Massachusetts

Garrett, Mitchel Owen
Roslyn, New York

Gartner, Richard Charles Sebastian
Lancaster, Pennsylvania

Gassaway, Laurence Jr.
Brooklyn, New York

Gendelman, Phillip Michael
Amherst, Massachusetts

Gerfen, Charles Richard
St. Louis, Missouri

Gewehr, Bradley Charles
Windsor, Connecticut

Gibralter, Robert Steven
Westbury, New York

Gilbert, David Arthur
Bel Air, Maryland

Gintoff, Gregory Brown
Fairfield, Connecticut

Glick, Kenneth Warren
West Orange, New Jersey

Gold, Laurence Edward
White Plains, New York

Graham, Michael John
Winnetka, Illinois

Granahan, Richard Braye
Waterford, Connecticut

Greenwald, David
New Rochelle, New York

Greggs, Gilbert Allen Jr.
Dundalk, Maryland

Griffin, Stephen Robert
Waterbury, Connecticut

Griggs, Benjamin Glyde III
St. Paul, Minnesota

Hamilton, Peter Francis
Newark, New York

Hammer, Jonathan Edward
New York, New York

Hanley, Christopher Sanger
Upper Montclair, New Jersey

Harden, Glenn Richard
Washington, D.C.

Harmon, Mark Edward Patrick
Cochituate, Massachusetts

Harper, Gregory William
Paris, France

Harriman, John Howland Jr.
Los Angeles, California

Hart, Avery Scott
Tenafly, New Jersey

Hartman, Keith Warren
Penfield, New York

Haskell, Grant Pickens
Westport, Connecticut

Hawkins, John Bruce
Charlottesville, Virginia

Heath, Robert Galbraith Jr.
New Orleans, Louisiana

Hecht, Philip Herbert
Detroit, Michigan

Hendrix, Derrell Jerome
Columbus, Ohio

Henschel, Adam Steven
Princeton, New Jersey

Hermann, Richard James
Stamford, Connecticut

Heske, Edward Joseph Peter
Sturbridge, Massachusetts

Hixon, David Dillon
Andover, Massachusetts

Holmes, Carl Bernard Jr.
Bronx, New York

Holmes, Charles Stanford
Fall River, Massachusetts

Hooper, Thomas Harrison III
Winston-Salem, North Carolina

Horan, Brien Joseph Purcell
West Hartford, Connecticut

Horan, Paul Michael
Worcester, Massachusetts

Horstkotte, Don Arner
Schenectady, New York

Hudak, Mark Lawrence Peter
West Hartford, Connecticut

Huey, David Robert
Geneseo, New York

Hughes, Phillip Alan
Los Angeles, California

Hunter, Peter Clark
Gibsonia, Pennsylvania

Hunter, Thomas Alexander IV
Westport, Connecticut

Jaskulski, Derek Cichon
Pelham, New York

Jelavich, Peter Charles
Bloomington, Indiana

Johnson, Paul Converse
Wilbraham, Massachusetts

Jonas, Jeffrey Martin
Valley Stream, New York

Jordan, Mark Conrad
Hilton Head Island, South Carolina

Kayler, Kyle Lee
Evergreen, Colorado

Kennedy, James Matson
Watertown, New York

Kirkpatrick, John David
Bryam, Connecticut

Kirkwood, Robert Charles
Thornwood, New York

Kitts, Willard Frederick Jr.
Albuquerque, New Mexico

Kolisch, Edward Pierre
Portland, Oregon

Konolige, Kurt George Dominic
Flushing, New York

Koppel, William Lee
New Rochelle, New York

Kopper, John Matthias Jr.
Baltimore, Maryland

Kos, Richard Joseph Francis
Chicopee Falls, Mass.

Kraft, Thomas Kevin
Bethlehem, Pennsylvania

Kramer, Sanford Neal
Baltimore, Maryland

Kramer, Steven Edward
Greenfield, Massachusetts

Kretchmer, John Ted
Winnetka, Illinois

Lerner, Gary Nevil
Rego Park, New York

Leslie, Richard Raymond
Ashburnham, Massachusetts

Levine, Matthew Ivan
Mt. Kisco, New York

Lindberg, Brent Robert
Chesterfield, Missouri

Linden, Christopher Harold
Danvers, Massachusetts

Lipsick, Joseph Steven
Sharon, Pennsylvania

Lister, Craig Joseph
Avon, Connecticut

Lopez, Raul Antonio
Kensington, Connecticut

Lu, Thomas Samuel
Brookline, Massachusetts

Lund, Mark Kennedy
Sao Paulo, Brazil

Lurie, Robert Stix
Cincinnati, Ohio

Lynch, Desmond Sherman Shaw
West Hempstead, New York

MacDonell, Alan Russell
Pittsburgh, Pennsylvania

MacIntyre, Richard Joseph
Greenville, Delaware

Macioce, John Peter
Stamford, Connecticut

Mack, Jonathan Harold
New York, New York

Madden, John Francis
New Britain, Connecticut

Magnell, Thomas Alfred
Scarsdale, New York

Magoon, William John
Rochester, Michigan

Major, Richard Robinson II
Baltimore, Maryland

Maloff, Peter C.
Queens Village, New York

Manker, Charles Forrest
Chicago, Illinois

Mann, Andrew David
Albany, New York

Mansuy, Francis Patrick II
Villanova, Pennsylvania

Manuelides, Stephen Eugene
Athens, Greece

Marcus, Lee Evan
Miami, Florida

Marsh, James Lawrence Jr.
Fairmont Park, Maryland

Martin, Hunter Lenon III
Houston, Texas

Martin, Wallace Ford
Lawrenceville, Georgia

Mayer, Lester Reinhard III
Philadelphia, Pennsylvania

McCartney, Robert James
Westmoreland Hills, Maryland

McCatty, Edward Sommerville
Brooklyn, New York

McDowell, William Hunter II
Paoli, Pennsylvania

McGhie, James Keith III
White Plains, New York

McNeish, Douglas Stevenson
Wellesley Hills, Massachusetts

Merritt, Haines Rennyson III
East Aurora, New York

Metcalf, Gilbert Elliott
Watertown, New York

Miller, Lawrence Jay
Valley Stream, New York

Miller, Ralph David
Winnetka, Illinois

Millikin, Michael David
Peoria, Illinois

Minicucci, Robert Arnold Thomas
Waterbury, Connecticut

Monheim, Charles William
Pittsburgh, Pennsylvania

Monroe, John Howard Jr.
Winston-Salem, North Carolina

Mooty, David Nelson
Edina, Minnesota

Morrissey, Christopher Charles
Maynard, Massachusetts

Mulligan, Edward Bowman IV
State College, Pennsylvania

Murphy, Daniel Vincent
University Heights, Ohio

Nagy, David Sandor
Washington, D.C.

Neel, Edgar Loewe
Highland, Illinois

Newman, Lee Scott
Westfield, New Jersey

Newton, James White
Sudbury, Massachusetts

Nicholson, Craig Claverie
Clayton, Missouri

Noble, Stafford Carter
Columbus, Ohio

Norrick, Bradley R
Clark's Summit, Pennsylvania

O'Donnell, John Eliot
Norwood, Massachusetts

Ojserkis, Bennett Edward
Margate, New Jersey

Oliver, Harold Eugene Jr.
Albany, Georgia

Orlik, Daniel Andrew
Ludlow, Massachusetts

Osman, Richard Michael
Scarsdale, New York

Oxholm, Carl III
Saint David's, Pennsylvania

Patsner, Bruce
West Nyack, New York

Pearson, Jerold Edward
Stamford, Connecticut

Peck, John Harold Jr.
Hamden, Connecticut

Perniciaro, Stephen
Chester, Vermont

Phillips, Jeffrey Mark
Marblehead, Massachusetts

Porter, Frederick Stanton
Chagrin Falls, Ohio

Poukish, Gary Philip
Saratoga Springs, New York

Powers, Robert David
Westport, Connecticut

Pultz, John Francisco
Memphis, Tennessee

Randall, Donn Alexander
Edgartown, Massachusetts

Ratliff, William Thomas III
Birmingham, Alabama

Rauch, Steven Douglas
Amherst, Massachusetts

Rawson, William Knox
South Bend, Indiana

Reddig, Michael Steven
Grand Rapids, Michigan

Reid, Michael William
Madison, New Jersey

Reif, Henry Jay
Brooklyn, New York

Reilly, John Richard Jr.
Bethesda, Maryland

Reindel, Frederick William III
Wayzata, Minnesota

Reinhardsen, James Sevren
Pound Ridge, New York

Reinus, William Ralph
New York, New York

Remelmeyer, Eric Scott
Redondo Beach, California

Reynolds, Stephen Paul
Fairview Park, Ohio

Roberts, Stephen
Amherst, Massachusetts

Rodriguez, Robin Cordell
Ossining, New York

Roelofs, Kemp Owyne
Gambier, Ohio

Roin, Howard James
Winnetka, Illinois

Roose, Thomas Dewey
Terrace Park, Ohio

Rose, Howard Kagan
East Hartford, Connecticut

Rouse, Stephen Michael
Trenton, New Jersey

Russell, Robert Henry III
South Hadley, Massachusetts

Ryan, Richard Robert
Derby, Connecticut

Sachar, Jerome David
Clayton, Missouri

Salzman, Jeffrey Hamilton
Darien, Connecticut

Sambor, Michael James
Wilbraham, Massachusetts

Santos, Thomas John Jr.
Melrose, Massachusetts

Schoening, Jeffrey Davis
South Dartmouth, Massachusetts

Schwartz, Eric
Pound Ridge, New York

Scott, Hector Lloyd
Hartford, Connecticut

Scribner, Kevin Thomas
Walla Walla, Washington

Shea, Richard Crate
Arlington, Virginia

Sidell, David Lincoln Balise
West Hartford, Connecticut

Silbert, Edward Fox
Marblehead, Massachusetts

Silsbee, Douglas Wheeler
Ithaca, New York

Sirkin, David Winsor
Bethesda, Maryland

Skowron, Robert Andrew
Pittsfield, Massachusetts

Smalls, Charles Augustus Jr.
Brooklyn, New York

Smith, Jeffrey Thornton
Plandome, New York

Smith, John Charles W.
Sudbury, Massachusetts

Smith, Lincoln
Cohasset, Massachusetts

Snyder, William Howard, Jr.
Redding, Connecticut

Sonnenschein, Eric Jay
Arlington County, Virginia

Soojian, Michael Matthew
Upper Saddle River, New Jersey

Souza, William David
Cotuit, Massachusetts

Spaulding, Barry Cole
Potomac, Maryland

Speck, Paul Gregory
Harrisonburg, Virginia

Sperling, Frederick Jay
Philadelphia, Pennsylvania

Spiegel, John
Vienna, Virginia

Stadler, Marc Edward
Urbana, Ohio

Stahl, Kenneth David
Ossining, New York

Steere, Daniel Edwards
Wickford, Rhode Island

Stewart, Robert Cecil
Tuscaloosa, Alabama

Stoller, James Kevin
Flushing, New York

Stone, Michael Cutler
Amherst, Massachusetts

Stoughton, Roland Baker
Rancho Santa Fe, California

Stover, Gerald Wayne
Springfield, Massachusetts

Strauss, Edward Bruce
Lawrence, New York

Strogatz, David Stanton
Torrington, Connecticut

Sullivan, John Louis III
Bethesda, Maryland

Sullivan, William Thrall Francis
Windsor, Connecticut

Swett, Albert Louis
New Canaan, Connecticut

Tahsler, Bruce Donald
Ambler, Pennsylvania

Teichgraeber, Michael Gerard
Houston, Texas

Thaler, Thomas Warren
Chestnut Hill, Massachusetts

Theile, Richard Michael
North Caldwell, New Jersey

Thibeault, George Alan
Saratoga, California

Thompson, Robert Bruce III
Malvern, Pennsylvania

Tobias, Norman Cecil
Westmount, Quebec, Canada

Tobochnik, Jan
Philadelphia, Pennsylvania

Tornow, David Staab
Northampton, Massachusetts

Treat, John Whittier III
East Hampton, Connecticut

Trinkaus, Peter Mark
Ann Arbor, Michigan

Tsiaras, Philip George
Nashua, New Hampshire

Tull, David Allan
Madison, Connecticut

Ulano, Michael Scott
Holyoke, Massachusetts

von Salis, Andrew Mead
Morristown, New Jersey

Walker, Richard George
Philadelphia, Pennsylvania

Wallace, Robert Sherrill
Tiptonville, Tennessee

Wang, Christopher Mark
Loudonville, New York

Wattley, Thomas Jefferson Jr.
Dallas, Texas

Waybright, Douglas Grover
Saugus, Massachusetts

Webster, Christopher White
Bethesda, Maryland

Weeks, Gary Lawrence
Wilmette, Illinois

Werner, David William
Pittsburgh, Pennsylvania

Wicks, John Oliver, III
Pittsburgh, Pennsylvania

Wiley, David Welles
Seattle, Washington

Williams, David Symmes
Rocky River, Ohio

Williams, Ernest Calvin Jr.
New Haven, Connecticut

Williams, John Irving Jr.
Westbury, New York

Williams, Richard Eugene Jr.
Tuscaloosa, Alabama

Williamson, John Ross
Baldwin, New York

Wilson, Blake McDowell
Eugene, Oregon

Wise, Peter Yeames
West Hartford, Connecticut

Wold, Cameron Lee
Urbandale, Iowa

Wood, Bruce Andrew
Houston, Texas

Woodbrey, Mark Leonard
Gorham, Maine

Woolverton, Frederick Curtis
East Norwich, New York

Yancey, Robert Willingham Jr.
Monte Brais Fajardo, Puerto Rico

Yungmeyer, Harold Ross Jr.
Laramie, Wyoming

Zink, Daniel Wesley
Wollaston, Massachusetts

Freshmen Class of 1976

Abrams, Lloyd Raymond
Clayton, Missouri

Abrams, Steven Robert
Philadelphia, Pennsylvania

Adams, Auther Elmore, Jr.
East St. Louis, Illinois

Adams, Michael Harold
New Hartford, Connecticut

Alexander, Scott Kirby
Whitehall, Ohio

Allison, Barnaby Adam
Los Angeles, California

Amely, Roberto
New York, New York

Armistead, Spencer Lee
Honolulu, Hawaii

Arnold, Frederick
White Plains, New York

Aronson, Thomas Alan
St. Louis, Missouri

Bailey, Philip Thatcher
Seattle, Washington

Baines, Kevin Hays
Woodbridge, Connecticut

Ball, Michael John
Newtonville, Massachusetts

Ball, Roger Woodwell
St. Louis, Missouri

Barksdale, Henry Caulfield, Jr.
Providence, Rhode Island

Baronas, Mark William
Enfield, Connecticut

Bassett, Edwin Ralph
Upper Montclair, New Jersey

Belisle, James Howard
Lisbon, Connecticut

Bergethon, Bruce Lind
Easton, Pennsylvania

Bergman, Charles Kimball
Pasadena, California

Black, Lehman Ernest, III
Youngstown, Ohio

Blair, Raymond Laurence
Los Angeles, California

Blenko, David Balman
Haverford, Pennsylvania

Bogan, Christopher Eric
Short Hills, New Jersey

Boling, Peter Avery
Brookline, Massachusetts

Bollens, Bruce Paul
Baltimore, Maryland

Bowers, Nigel Lindsay
Millbrook, New York

Brodigan, Bruce Fraser
West Hartford, Connecticut

Bronner, Jay Abraham
New York, New York

Bronsteen, Peter
Stamford, Connecticut

Brown, James Cutler
North Branford, Connecticut

Brown, Mark Stephen
DeWitt, New York

Buchsbaum, Craig Martin
Highland Park, Illinois

Budnik, Gregory Glenn
Bethpage, New York

Burress, Michael Kevin
Arlington, Virginia

Burt, Joseph Duffy
Ft. Lauderdale, Florida

Bushnell, David Colton
West Hartford, Connecticut

Butler, Michael Keith
Baton Rouge, Louisiana

Canfield, Peter Crane
Rio de Janeiro, GB, Brazil

Cartin, Javier Francisco
San Jose, Costa Rica

Chalifoux, Alan Trevvett
Glen Cardner, New Jersey

Charnoff, Jan Stuart
Ellenville, New York

Christ, Bryant William
West Hartford, Connecticut

Christen, James Dandee
Ardmore, Pennsylvania

Clark, Walter, III
Williamstown, Massachusetts

Clarke, Christopher Sanborn
Keene, New Hampshire

Clubb, Merrel Dare, IV
Missoula, Montana

Cobau, Charles Duffy, Jr.
Toledo, Ohio

Coffin, Jonathan Ptoter
Wakefield, Rhode Island

Cohen, Leslie George
St. Albans, New York

Cohn, Frederic Reiner
Bloomfield, Connecticut

Cone, Thomas Edward
Greensboro, North Carolina

Coutifaris, Christos Orpheus
Athens, Greece

Craig, Stephen Joseph
Phoenix, Arizona

Crossland, Robert John
Montvale, New Jersey

Culton, Leroy
Charleston, South Carolina

Cushman, Robert Allerton
Longmeadow, Massachusetts

Davidow, Charles Edward
Cincinnati, Ohio

Davies, Peter Bowen
Dallas, Pennsylvania

Davis, Randall Hopkins
Coram, New York

de Castro, Jeffrey Peter
Norwalk, Connecticut

Deming, Stephen Robert H.
Towson, Maryland

Devin, William Henry, III
Brockton, Massachusetts

Dewdney, Brian Murray
Durham, New Hampshire

Dewitz, Andreas Herbert
Florence, Massachusetts

Dillon, Adrian Tremayne
Hudson, Ohio

Diskint, Peter Gary
Fresh Meadows, New York

Douglas, David Mateer
Newton, Massachusetts

Doyle, David Barton
Weston, Connecticut

Driscoll, David Gerald
Somerset, Massachusetts

Dudley, Eliot Wands
Cato, New York

Duffy, Michael Andrew
Hamden, Connecticut

Dwyer, William Edward, Jr.
Hadley, Massachusetts

Edelberg, Lee Paul
Northampton, Massachusetts

Edmondson, Everton Anthony
Brooklyn, New York

Ehrlich, Steven Mark
St. Louis, Missouri

Ellis, Mark Evan
Bernardston, Massachusetts

Ewen, Malcolm Dawes
Winnetka, Illinois

Fagen, Lester Jan
Woodmere, New York

Fidrocke, Alfred Paul Ian
Washington, D.C.

Fiore, Michael Thomas Stephen
Elizabeth, New Jersey

Fitzgerald, Charles Sagar
Shaker Heights, Ohio

Fleury, William James
Toronto, Ontario, Canada

Floyd, Edward Campbell
Bristol, Connecticut

Foster, John Allan
Belmont, Massachusetts

Freedman, Jack
Silver Spring, Maryland

Fribourg, Paul Jules
New York, New York

Friedman, Andrew Joseph
New York, New York

Fromson, Paul Michael
Monsey, New York

Fucci, John Conville
West Hartford, Connecticut

Fuerstman, Louis Peter
New Milford, New Jersey

Fulmer, James Jay
Northboro, Massachusetts

Gamble, James Carr, III
Frontenac, Missouri

Garmezy, Lawrence
Minneapolis, Minnesota

Gibson, Scott Christopher Joseph
Brimfield, Massachusetts

Gibson, Steven Brian
Baltimore, Maryland

Gidwani, Bahar Narain
Columbus, Ohio

Giorgi, Gaspar Gary
Elizabeth, New Jersey

Glass, Geoffrey Theodore
Falls Church, Virginia

Gonzales, Thomas Lee
Camp Springs, Maryland

Goodman, Jordan Elliot
Cranston, Rhode Island

Graven, Mark Henry
Minneapolis, Minnesota

Graves, Bradford James
Sunderland, Massachusetts

Greason, Douglas Bradford
Brunswick, Maine

Green, Robert Castleman, III
Winchester, Virginia

Greene, Alan Davis
Winchester, Massachusetts

Greene, Mark Nissen
Westfield, New Jersey

Greenman, John Bingham
Kenmore, New York

Griffin, Frank Wilson
Wayland, Massachusetts

Groff, Marc Linden
Glenview, Illinois

Gurka, Michael John Anthony
Springfield, Massachusetts

Gusack, Mark David
Chevy Chase, Maryland

Gutierrez, Eduardo
Coral Gables, Florida

Halle, Austin Arthur, III
Memphis, Tennessee

Hansen, David Elwood
Allendale, New Jersey

Harter, Clayton Everett
Winnetka, Illinois

Hatch, Warren Amos
Portland, Oregon

Healy, Christopher Read
Branford, Connecticut

Hensler, Arthur Charles, III
Chatham, New Jersey

Hoffman, David Lloyd
Scarsdale, New York

Holdcroft, James Patrick, Jr.
Pittsburgh, Pennsylvania

Holmes, David Lawrence
South Hill, Virginia

Hov, Donald Anton
Weston, Connecticut

Howard, Robert Augustus, Jr.
Detroit, Michigan

Htoo, Mark Sterling Han
New York, New York

Huggins, John Mitchell
Stanford, California

Hurwitz, Ralph David
Gloversville, New York

Hyams, Andrew Leon
Teaneck, New Jersey

Iacobuzio, Theodore John Joseph
Port Chester, New York

Jablin, Peter Mark
Blue Bell, Pennsylvania

Jackson, Antonio Pierre
Chester, Pennsylvania

Jacobs, James Steven Vincent
River Forest, Illinois

Jenkins, Jack Wade
Valdosta, Georgia

John, Werner Paul Karl
Chester, New York

Juliand, Charles Race
North Dartmouth, Mass.

Kassler, Kenneth Barry
Newton Centre, Massachusetts

Katz, Henry Joseph
Brooklyn, New York

Kaufman, James David
Steubenville, Ohio

Kayatta, William Joseph, Jr.
South Portland, Maine

Kaye, Jeffrey Alan
Long Branch, New Jersey

Kee, David Bryan, Jr.
Atlanta, Georgia

Keevil, Joseph Christopher
Lincoln, Massachusetts

Kehne, John Herr, Jr.
Hagerstown, Maryland

Keroack, Mark Alvin
Springfield, Massachusetts

Kingman, David Eastman
Wayzata, Minnesota

Kingman, James Brantley
Wayzata, Minnesota

Klein, Kevin Mart
Point Marion, Pennsylvania

Klein, William Edward
Clayton, Missouri

Knox, Northrup Rand, Jr.
East Aurora, New York

Koch, Richard Renaud
Phoenix, Arizona

Koo, Edward Hao-Mang
Kowloon, Hong Kong

Kordalewski, John Andrew
Fayetteville, New York

Kranzler, Peter Henry
Rocky Hill, New Jersey

Kuehn, Carl Anton
Springfield, Illinois

Lansdale, Jeffrey Dexter
Thessaloniki, Greece

Lehner, Carl Philip
Hingham, Massachusetts

Leiper, Scott Cory
Berkeley, California

Leland, Richard Alanson, Jr.
Los Altos, California

Lempert, Norbert
Forest Hills, New York

Leonardi, Craig Louis
Agawam, Massachusetts

Leslie, Keith Douglas
Fayetteville, New York

Levin, Harry Michael
Teaneck, New Jersey

Levins, Robert William
Dorchester, Massachusetts

Levy, David Marc
Shaker Heights, Ohio

Levy, John Edward
Los Angeles, California

Liss, Adam Daniel
Bellmore, New York

Ljungkull, Christopher Rolf
St. Paul, Minnesota

LoPresti, Laurence Ralph
Smithtown, New York

Lovekin, James Warren
Fairfield, Connecticut

Lundquist, Daniel Merritt
Haverford, Pennsylvania

Lyons, Mark Hugh Rock
Huntington, New York

MacGovern, George, Jr.
Bronxville, New York

MacNeil, Roderick Wilson
Ithaca, New York

Macris, Aristides
Athens, Greece

Magyar, Mark Joseph
Trenton, New Jersey

Mann, Charles Cameron
Bellevue, Washington

Markowitz, Charles Bernard
North Woodmere, New York

Marks, Andrew Robert
New York, New York

Maroney, Walter Leo, Jr.
Andover, Massachusetts

Martin, Howard Clyde
Milwaukee, Wisconsin

Martin, Zack Z.
Lawrenceville, Georgia

Mason, Kent Allen
Bethesda, Maryland

McAndrew, Alexander
Kentfield, California

McEvoy, Michael Ray
Perrysburg, Ohio

McFeely, William Drake
South Hadley, Massachusetts

McNitt, Peter J. B.
Winnetka, Illinois

Mechaber, Douglas Seth
Fall River, Massachusetts

Meister, Marc Joseph
Swanton, Ohio

Merlin, William Loring, Jr.
Minneapolis, Minnesota

Meyers, John Frederick
Yarmouthport, Massachusetts

Michel, Robert Charles
Westerville, Ohio

Millard, Peter Simon
South Windham, Maine

Miller, Geoffrey Morison
Swarthmore, Pennsylvania

Moore, Vincent Carl
Cleveland, Ohio

Moorefield, James Stewart
West Boylston, Massachusetts

Morris, Samuel
Bloomington, Indiana

Mosley, Michael Steven
Ardmore, Pennsylvania

Mossman, Douglas
East Grand Rapids, Michigan

Mullins, Michael Chase
Durham, New Hampshire

Mundt, G. Henry, III
Western Springs, Illinois

Murphy, Arthur Thomas, Jr.
Milton, Massachusetts

Nabrit, Ronald Lee
Atlanta, Georgia

Nardi, William Joseph
West Hartford, Connecticut

Needle, Michael Richard
Rydal, Pennsylvania

Nelson, Mark Douglas
Short Hills, New Jersey

Ngenge, Anthony Wawa
West Cameroon, West Africa

Nicholas, Robert Arthur
Stamford, Connecticut

Nichols, John Leonard, Jr.
Rochester, New York

Nichols, William Hart, III
Sudbury, Massachusetts

Nihan, Leonard, Jr.
Lynnfield, Massachusetts

O'Brien, John Sebastian, II
Wilmington, Delaware

O'Brien, Robert John
West Hartford, Connecticut

O'Neil, Matthew John, Jr.
Charlestown, Massachusetts

Orent, James Michael
West Newton, Massachusetts

Pace, Robert Emanuel
Hartford, Connecticut

Palacios, Alejandro Jose
Englewood, New Jersey

Peterson, Keith Haviland
Phoenix, Arizona

Phillips, Howard Harwood
Memphis, Tennessee

Purificacion, Leslie John
New York, New York

Quinn, Daniel Thomas
Baltimore, Maryland

Rapisarda, Paul Howard
Evanston, Illinois

Rasmussen, Raun Jay, Jr.
Glen Rock, New Jersey

Rassieur, Benjamin Franklin, III
St. Louis, Missouri

Rayner, Loris Matthew
Chicago, Illinois

Reich, Scott Michael
Philadelphia, Pennsylvania

Reilly, Craig Crandall
Greenwich, Connecticut

Reliford, Arthur Jerome
Chicago, Illinois

Robert, Frank Ainsworth
Westfield, New Jersey

Rogers, Robert Podmore
Salinas, California

Rollinson, Keith Thomas Kyle
Rahway, New Jersey

Roseff, Richard
Parisppany, New Jersey

Rosenberg, Daniel Craig
Los Angeles, California

Rosenberg, Mark Sherman
Yonkers, New York

Rosenwasser, Steven Jonathan
Roslyn Heights, New York

Rossi, Douglas Dale
Santa Monica, California

Rothkopf, Douglas Miller
Cedarhurst, New York

Roulier, Joseph Charles
Pittsfield, Massachusetts

Ruben, Richard Gordon
Scarsdale, New York

Ryan, Hughes
Ross, California

Salomon, Gary David
Brookline, Massachusetts

Sanford, Timothy Blake
Ojai, California

Saunders, Timothy James
Dayton, Ohio

Saverine, Peter Charles
Darien, Connecticut

Schermer, Gregory Philip
Pleasant Valley, Iowa

Schimmel, Robert Nelson
Essex Fells, New Jersey

Schnell, Paul Thomas
New York, New York

Schwartz, William Irving
Hollywood, Florida

Seamans, Prescott Tufts
New Canaan, Connecticut

Sell, Clive Hamilton
Nashville, Tennessee

Shaw, Mark Hamilton
Cartersville, Georgia

Shaw, Robert Morrow
Maple Glen, Pennsylvania

Sherwin, Elton Buchanan
Belvedere, California

Silva, Armando Max
Tulare, California

Sirlin, Scott Michael
North Woodmere, New York

Smith, Jeffrey Howard
Wakefield, Rhode Island

Smith, John Washburn, II
Kingston, Pennsylvania

Smith, Paul March
Mougins, France

Smith, Robert Cranford, Jr.
Waycross, Georgia

Softness, Barney
Glen Cove, New York

Soule, Robert Ragle
Andover, Massachusetts

Spratt, Adrian
Darien, Connecticut

Steinfeld, Andrew Walter
Tenafly, New Jersey

Stevens, Michael Jonathan
Madison, Connecticut

Stiles, Joshua Kent
Summit, New Jersey

Stookey, Crane Wood
Hastings-on-Hudson, New York

Strach, Edward Paul
Muskegon, Michigan

Sugerman, Peter Allen
Stamford, Connecticut

Swain, Robert Burrough, III
West Hartford, Connecticut

Tanger, John Carroll, IV
Hanover, Pennsylvania

Thayer, Richard Ellsworth
Chestnut Hill, Massachusetts

Thayer, Robert Edward, Jr.
Fanwood, New Jersey

Thomas, Bradley Johnathan
Alamo, California

Thomas, Joseph Simon, Jr.
Chicago, Illinois

Thomas, Roerick Welton
Los Angeles, California

Tietjen, James Ramsey
Old Saybrook, Connecticut

Tiffany, Peter Nelson
Pelham, New York

Todd, Hector Lincoln, Jr.
Buffalo, New York

Tolbert, Mitchell Page
Baton Rouge, Louisiana

Trachtenberg, Zev Matthew
New Haven, Connecticut

Tykulsker, David Abe
Roslyn Heights, New York

Ulmer, John Wiley
Ames, Iowa

Vater, Paul Edward
New Britain, Connecticut

Vayer, Joshua Seth
Longmeadow, Massachusetts

Vickery, Alan Borden
Washington, D.C.

Vogt, Henry Theodore
Brattleboro, Vermont

von Toerne, Curt Theodore
Mountain Lakes, New Jersey

Wagoner, William Fiske
Boonville, New York

Walker, Peter Shanahan
River Forest, Illinois

Wallace, Kevin Lloyd
Wilbraham, Massachusetts

Ware, Ronald Heribert
Holyoke, Massachusetts

Watkins, Richardson Lawler
Oyster Bay, New York

Watson, Christopher
Marshfield, Massachusetts

Wegman, Douglas James
Rochester, New York

Weidman, James Adam
Roslyn, New York

Werner, Blaine Patrick Andrew
Portland, Oregon

Westberg, Dana Burns
North Scituate, Rhode Island

White, Walter Hiawatha, Jr.
Mequon, Wisconsin

Whitelaw, Mark Joseph
Seekonk, Massachusetts

Wieck, Randolph Raymond
Louisville, Kentucky

Williams, Carl Richard
Abington, Pennsylvania

Willoughby, Kenneth Gray
New Haven, Connecticut

Wilson, Joseph Michael
Memphis, Tennessee

Wilson, Lee Anthony
Winnetka, Illinois

Wolpe, David
Merion, Pennsylvania

Wolpe, Stephen Dov
Philadelphia, Pennsylvania

Woolston, Vernon Lee, Jr.
Skaneateles, New York

Wright, John Burke
Keene, New Hampshire

Wulc, Allan Edward
Rydal, Pennsylvania

Wulsin, Drausin Foster
Cincinnati, Ohio

Wynn, Arthur
Philadelphia, Pennsylvania

Yake, Stephen Lincoln
Cohasset, Massachusetts

Young, John Thomas
Freeport, New York

EXCHANGE STUDENTS IN RESIDENCE AT AMHERST

MEMBERS OF TWELVE-COLLEGE INTERCHANGE PROGRAM

Name	*Class*	*College*
Bosco, Donna Maria East Haven, Connecticut	1974	Wellesley College
Brooks, Robin Lynn Greenwich, Connecticut	1974	Mount Holyoke College
Butler, Linda Melrose, Massachusetts	1974	Smith College
Chandler, Gail Lake Forest, Illinois	1974	Smith College
Cushing, Deborah Bradstreet Gloucester, Massachusetts	1974	Wellesley College
Dolvin, Virginia Chappell Tokyo, Japan	1973	Smith College
Duffy, Charity Kirk Greenwich, Connecticut	1974	Smith College
Emerson, Ellen Louise Shaker Heights, Ohio	1974	Smith College
Ettlinger, Catherine Chicago, Illinois	1973	Mount Holyoke College
Finney, Alison Warren Washington, D.C.	1974	Mount Holyoke College
Gallaher, Patricia Ellen Davenport, Iowa	1973	Mount Holyoke College

EXCHANGE STUDENTS

Name	*Class*	*College*
Graham, Andrea Ryn New Rochelle, New York	1974	Smith College
Haine, Susan Jean Stamford, Connecticut	1974	Smith College
Hylander, Mary Ann Rockville, Maryland	1975	Smith College
La France, Margaret Haviland Elmira, New York	1974	Mount Holyoke College
Moch, Susan Alison Mamaroneck, New York	1974	Mount Holyoke College
Ramsey, Carol Lakeville, Connecticut	1974	Smith College
Samek, Margaret Theodora Theresa Phoenixville, Pennsylvania	1974	Smith College
Stokes, Jeanette Tulsa, Oklahoma	1973	Smith College
Thistle, Janet Elaine Tewksbury, Massachusetts	1974	Mount Holyoke College
Thompson, Tracy A. New York, New York	1974	Mount Holyoke College
Voros, Sharon Virginia Cecelia Bethlehem, Pennsylvania	1974	Smith College
Weinberg, Janet Lynn West Hartford, Connecticut	1973	Smith College

OTHER EXCHANGE PROGRAMS

Clark, Christopher Frederic Surrey, England	University of Warwick
Laurence, Peter Jonathon Lincolnshire, England	University of Warwick
Murray, Robin O'Hara Warwickshire, England	University of Warwick
Page, Philip Lancashire, England	University of Warwick
Proctor, David Holt Lancashire, England	University of Warwick

SPECIAL STUDENTS

Donnet, Dominique
Amherst, Massachusetts

Fine, John Schoenfeld
West Springfield, Massachusetts

Genton, Bernard
Evlmont, France

Hafner, Sarah Ann
Amherst, Massachusetts

Harris, Thomas Norman
Piedmont, California

LaVoy, Alison
Northampton, Massachusetts

Leleu, Francoise Marie Olga
Reims, France

Nash, Kornell Richard
Granby, Massachusetts

Peskin, Judd Lawrence
Longmeadom, Massachusetts

Samit, Jonathan
Amherst, Massachusetts

Servat, Henry-Jean Francois
La Grande Motte, France

Siggia, Alan Dale
Amherst, Massachusetts

Snider, Frederic Girvan
White Plains, New York

Wolff, Karl-Heinz
Gifhorn, West Germany

AMHERST STUDENTS ON LEAVES OF ABSENCE

EDUCATIONAL LEAVES

Name	*Class*	*College*
Alexander, David Nelson Hibbing, Minnesota	1975	Carleton College
Bailey, Ronald Edward Hampton, Virginia	1974	Hamilton College Junior Year in France
Breckberg, Robert Lee Kodiak, Alaska	1973	University of Tel Aviv
Casey, Paul Christopher Patrick Milford, Connecticut	1974	School of Irish Studies
Cockley, Matthew Mansfield, Ohio	1975	Case Western Reserve University
Coulter, Steven Lee Tulsa, Oklahoma	1973	Washington University, School of Dentistry
Eakland, Henry Nordling La Canada, California	1974	Sweet Briar College Junior Year in France
Eley, Thomas Wendell Milwaukee, Wisconsin	1974	University of Wisconsin
Feldman, Robert Young Haywood, California	1974	College of Environmental Design, University of California
Foliart, Danford Wilson Oklahoma City, Oklahoma	1974	University of Southern California
Ginn, William James Shaker Heights, Ohio	1974	College of the Atlantic
Goldberg, Charles Stephen Forest Hills, New York	1974	Stanford University
Johnson, Walter Carroll White Plains, New York	1974	University of Edinburgh
Kirkpatrick, Brett Turnley Nashville, Tennessee	1974	Vanderbilt University
Kleiner, Stuart Cleveland Heights, Ohio	1975	Case Western Reserve University
Krushel, Kenneth Joseph Roslyn Heights, New York	1974	Hebrew University
Lopez, Floyd William Albuquerque, New Mexico	1974	University of Salamanca
McArthur, Mark Anthony Chicago, Illinois	1974	Illinois Wesleyan University

STUDENTS ON LEAVES

Name	*Class*	*College*
McCray, Harold Estle Philadelphia, Pennsylvania	1973	State University of New York Year in France
Meer, David Mendel Mount Vernon, New York	1974	Hampshire College
Nazar, Michael David Scotia, New York	1974	University of Massachusetts Freiburg Program
O'Kell, David Charles Toronto, Ontario, Cnaada	1974	Trent University
Ourieff, Bruce Arthur Los Angeles, California	1973	San Francisco Art Institute
Quinn, Thomas Edward West Hartford, Connecticut	1974	University of Dublin
Rosenbaum, Robert Leonard Mount Vernon, New York	1973	Carleton College Kyoto Program
Silberstein, Peter Todd Mamaroneck, New York	1974	Kibbutz Mizrah, Israel
Tarnoff, John Brooks Greenwich, Connecticut	1973	University of Southern California
Van Essen, Thomas Westport, Connecticut	1974	Sarah Lawrence College
Villafane, Rafael Luis Mexico City, Mexico	1974	University of California
Williams, Andre Martin Trenton, New Jersey	1973	Experiment in International Living
Williams, Roy Christopher Stockbridge, Massachusetts	1974	Beaver College, London

UNIVERSITY OF WARWICK EXCHANGE PROGRAM

Abbondanza, Richard Joseph Haverhill, Massachusetts	1974	
Cooper, John Niessink Kalamazoo, Michigan	1974	
DeBragga, Richard Paul Islip, New York	1974	
Golden, Jeffrey Stephen Fayetteville, New York	1974	
Kemp, Thomas Lawsen Potomac, Maryland	1973	

TWELVE COLLEGE INTERCHANGE PROGRAM

Benzel, Richard Lawrence North Haven, Connecticut	1973	Smith College
Harvey, David Stimson Washington, D.C.	1974	Mount Holyoke College

Name	*Class*	*College*
Larson, Dana Linden St. Louis Park, Minnesota	1974	Wellesley College
Lorch, Robert Frederick West Hartford, Connecticut	1974	Wellesley College
MacNeish, David Dixon, Jr. Wellesley Hills, Massachusetts	1974	Mount Holyoke College
Moran, Michael Joseph Wallingford, Pennsylvania	1974	Wellesley College
Rock, Joseph William Shaker Heights, Ohio	1974	Smith College
Sands, Robert Andrew Albany, New York	1974	Wellesley College
Sawyer, Jeffrey McCullough Pittsford, New York	1974	Wellesley College
Stein, Robert Highland Park, Illinois	1974	Smith College
Wrage, Stephen Douglas Carlisle, Massachusetts	1974	Smith College
Zheutlin, Peter Alan Paramus, New Jersey	1975	Vassar College

FIELD STUDY PROGRAMS

Abbey, David Sterling Chappaqua, New York	1974	Papandreou, George Andreas King City, Ontario, Canada	1974
Bleiler, Robert Hilton Manchester, Connecticut	1973	Polevoi, Lee Nathan South Euclid, Ohio	1974
Bristol, Frederick Adams, III Orchard Park, New York	1974	Riklin, Scott Frederick Rye, New York	1974
Dorfsman, Neil Eric Great Neck, New York	1974	Roca, Juan Xavier Madrid, Spain	1974
Ewing, Lee Baylor Cuba, Illinois	1973	Soong, Arthur Jee-Chung New York, New York	1973
Leggett, James Everett, Jr. Lexington, Kentucky	1974	Tredici, Tomas De Santis San Antonio, Texas	1974
Leslie, Kenneth Donald Peekskill, New York	1974	Veeder, Thomas Gordon Princeton, New Jersey	1973
Liedtke, William Clarence, III Houston, Texas	1973		

SUMMARY OF ENROLLMENT*

Seniors, Class of 1973	302
Juniors, Class of 1974	295
Sophomores, Class of 1975	317
Freshmen, Class of 1976	312
Sub Total	1,226

*Not included are the 63 Amherst students who are on leaves of absence away from Amherst as of the first semester, 1972–73.

Exchange Students	
Full Time	28
Part-Time	0
Sub Total	1,254
Graduate Students	0
Special Students	16
TOTAL	1,270

CLASSIFICATION BY RESIDENCE

New York	239
Massachusetts	202
Connecticut	144
Pennsylvania	87
New Jersey	76
Illinois	49
Ohio	49
Maryland	44
Non-USA	44
California	39
Minnesota	23
Michigan	21
Virginia	19
Missouri	18
Maine	17
New Hampshire	15
District of Columbia	15
Rhode Island	14
Georgia	13
Texas	13
Washington	13
Tennessee	11
Florida	10
Iowa	9
North Carolina	9
Wisconsin	9
Alabama	8
Colorado	7
Vermont	7
Arizona	5
Indiana	5
Oregon	5
Delaware	4
Louisiana	4
South Carolina	4
Hawaii	2
Kansas	2
Kentucky	2
Montana	2
New Mexico	2
Oklahoma	2
Wyoming	2
APO	2
Arkansas	1
Mississippi	1
Utah	1
Grand Total	1,270

VI

THE SOCIETY OF THE ALUMNI

THE ALUMNI COUNCIL

THE ALUMNI ASSOCIATIONS

Buckley Hall in the Amherst Music Building

The Society of the Alumni

OFFICERS

Honorary President: Eugene S. Wilson, Jr. '29

President: Robert S. Bowditch '30

Vice Presidents: George W. Brayer '23, Thompson Funk '33, Frederick L. Taft '28, David Winslow '38, Dolph W. Zink '43

Secretary-Treasurer: Frederic J. Gardner '49

COMMITTEES

Nominating Committee: Robert H. Bierman '53, Cornelius Bodine, Jr. '38, Frank E. Koebel, Jr. '43, Michael A. Laux '63, William K. Zinke '48

Inspectors of Election: Earl W. Merrill '27, William H. Ross '29, H. Hills Skillings '38

Committee to Nominate Alumni Trustee: Burleigh Cruikshank, Jr. '53, Samuel H. Epstein '23, Amos B. Hostetter, Jr. '58, Robert K. Massey, Jr. '63, Peter Winn '48

The Annual Meeting of The Society of the Alumni is held in Commencement Week.

The Alumni Council

OFFICERS

Chairman: Robert S. Bowditch '30

Secretary: Frederic J. Gardner '49

EXECUTIVE COMMITTEE

Seth H. Dubin '54 (Chairman); Maurice A. Longsworth '54, Robert J. McKean, Jr. '50, David D. McNeish '49, Douglas C. Magee '69, James A. Stewart '39, William McC. Vickery '57

REPRESENTATIVES OF CLASSES

1900	Osmond J. Billings	1930	Richard W. Loud
1903	Albert W. Atwood	1931	Kingsley F. Norris
1904	Ernest M. Whitcomb	1932	William H. Raye, Jr.
1906	William E. D. Ward	1933	Richard H. Gregory, Jr.
1908	Robert H. Kennedy	1934	Sanford Keedy
1909	William H. Wright	1935	Irvin G. Thursby
1910	John Porter	1936	Philip H. Clarke
1911	Beeckman Delatour	1937	James M. Selby
1912	Maurice J. Levy	1938	Bennett Meyers
1913	Edward S. Morse	1939	Robert J. Kelly
1914	Clarence D. Rugg	1940	Robert A. Potter
1915	George K. Ripley	1941	Edward J. Ingraham, Jr.
1916	G. Homer Lane	1942	Edward J. Kneeland
1917	Donald E. Temple	1943	S. Dakin Chamberlain, Jr.
1919	Herman M. Wessel	1944	Meredith N. Stiles, Jr.
1920	Theodore L. Buell	1945	Samuel F. Trull
1921	Dennison B. Cowles	1946	S. Thomas Martinelli
1922	Edward S. O'Donnell	1947	L. Richard Lyman, Jr.
1923	Harry S. Ferguson	1948	William W. Lawrence, Jr.
1924	Cyril K. Collins	1949	Gerald D. Reilly
1925	Merton L. Griswold	1950	Robert K. Tisdall
1926	Samuel M. Cameron	1951	Willard T. Weeks
1927	Loomis Patrick	1952	Gordon Hall, III
1928	Stuart Pike	1953	Charles M. Strait
1929	Geoffrey G. Felt	1954	David G. Underwood, II

1955	William B. Duffy, Jr.
1956	Douglas B. Rhodes
1957	Howard T. Bellin
1958	C. Michael Spero
1959	Richard A. Cook
1960	John F. Swope
1961	Alexander S. Twombly, III
1962	Alfred M. Sadler
1963	Mark E. Meyerson
1964	Peter D. Kleinman
1965	William R. Buechner
1966	Charles K. Wray
1967	Irvin D. Gordon
1968	Claude A. Pickens
1969	C. Alexander Gordon

REPRESENTATIVES OF ALUMNI ASSOCIATIONS

Arizona (Phoenix)
Eric H. Marks '17

Arizona (Tucson)
Linn M. Hazen '33

Baltimore
Stephen T. Ellen '37

Boston
Lucian J. Colucci '37
Guilbert Q. Wales '35

California (Northern)
David Winslow '38

California (Southern)
William L. Plunkett '51
Franklin Stockbridge '42

Cape Cod
Lloyd W. Miller '19

Chicago
Robert B. Jarchow '44
Ernest Palmer, Jr. '36

Connecticut
J. Herbert Arnold, Jr. '43

Connecticut (Southern)
Victor R. Pattengill, Jr. '39

Connecticut Valley
Daniel Leavitt '45

Florida (Gulf Coast)
James J. Corral '40

Florida (Southern)
William P. Atwill '26

Georgia
Lee N. Lindeman '59

Hawaii
Stuart G. Brown '34

Maine
Richard S. Wolfe '52

Massachusetts (Central)
James M. Karet '58

Michigan
Richard J. Langs '55

Minnesota
Charles McI. Webster

New Hampshire
Harold C. F. Hammerstrom '28

New York (City)
William E. Whitney, Jr. '54

New York (Central)
Robert B. Simonton '54

New York (Northeastern)
V. Earl Nicklas '39

New York (Westchester)
Clifford B. Storms '54

New York (Western)
W. Barry Mallon '44

Ohio (Central)
John W. Edwards '59

Ohio (Northern)
Robert G. McCreary, Jr. '40

Ohio (Valley)
Stuart J. Swensson, Jr. '46

Pennsylvania (Western)
Robert L. Munroe

Philadelphia
Herbert H. Middleton, Jr. '50
Franklin A. Wurman '53

Rhode Island
C. George Taylor '39

AMHERST COLLEGE

Rochester
Charles P. Northrup '63
James A. Reed, Jr. '52

Rocky Mountain
Frederick K. Conover II '55

St. Louis
Rodney Harris, Jr. '40
William H. Webster '45

Texas (Dallas)
Frederick M. Smith II '56

Texas (Houston)
William C. Liedtke, Jr. '45

The Columbia
Edgar A. Taylor, Jr. '30

Washington, D.C.
William C. Hart '44
A. Lyman Warner, Jr. '58

Washington (State)
George C. Buck '42

Wisconsin
(to be selected)

FOREIGN

France
Archie L. Taylor, Jr. '49

Great Britain
Donald E. Hardy '16

Japan
Toshihiko Yamaguchi '26

Korea
Pyong Re Min '60

MEMBERS AT LARGE

James H. Balmos '50
Seth H. Dubin '54
Byron T. Foster '53
Maurice A. Longsworth '54
Robert J. McKean, Jr. '50
David D. McNeish '49
David M. Mace '60
Douglas C. Magee '69
Stephen B. Oresman '54
William R. Park '49
James A. Stewart '39
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The Alumni Associations

1972-1973

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The Connecticut Valley Association. *President:* Thomas J. O'Connor, Jr. '47, 42 Oakland Road, Wilbraham, Massachusetts 01095. *Secretary:* Jonathan P. Rice, 30 Pleasantview Avenue, Longmeadow, Massachusetts 01106.

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The Association of Central Ohio. *President:* William L. Millard '53, 150 East Broad Street, Columbus, Ohio 43215. *Secretary:* John W. Edwards '59, 6417 Linworth Road, Worthington, Ohio 43085.

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The Association of Great Britain. *President:* Donald E. Hardy '16, 15 Portman Square, London W.1, England.

The Association of Japan. *President:* Toshihiko Yamaguchi '26, 5-7 Higashi-Gotanda 5-chome, Sinagawa-ku, Tokyo, Japan. *Secretaries:* Shigeru Okumura '54, 826-11, Terabun, Kamakura-shi, Kanagawa-ken, Japan. Haruhiko Chizawa '63, 1 Midorigaoka-cho, Shibuya-ku, Tokyo, Japan.

The Association of Korea. *President:* Byonk Kuk Kim '51, Sogany University, Mapo-ku, Seoul, Korea. *Secretary:* Tae Wi Park '61, 27-4 Sukyo Dong, Mapo-ku, Seoul, Korea.

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